

AD-A183 997

LIGHTWEIGHT TOWED HOWITZER DEMONSTRATOR PHASE 1 AND
PARTIAL PHASE 2 VOLUM (U) FMC CORP MINNEAPOLIS MINN
NORTHERN ORDNANCE DIV R RATHE ET AL APR 87

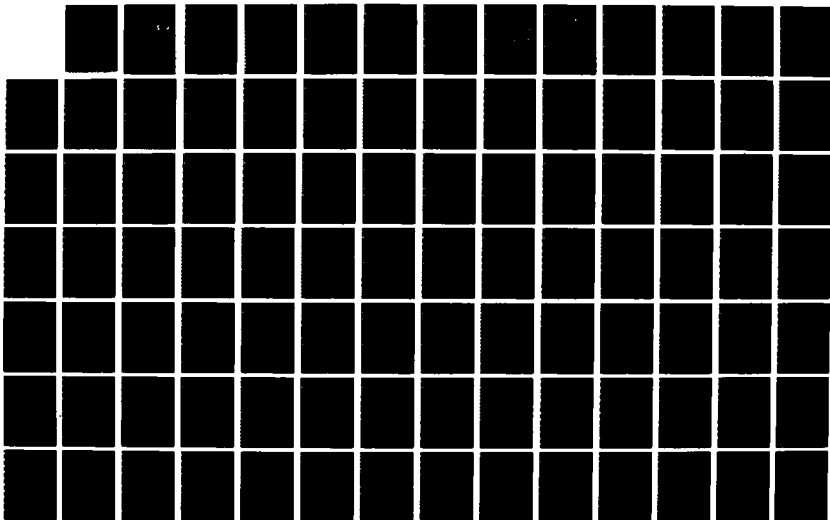
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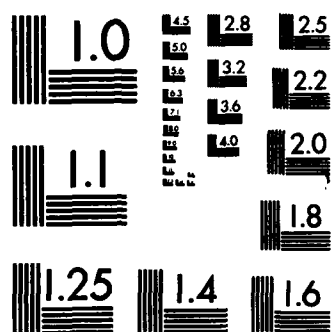
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FMC-E-3041-VOL-G DAAA21-86-C-0047

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AD-A183 997

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Lightweight Towed Howitzer Demonstrator

Final Report
Volume G
Technical Data Package

April 1987

DTIC
ELECT
SEP 03 1987
S & D

Contract Number DAAA21-86-C-0047

FMC CORPORATION
Northern Ordnance Division
4800 East River Road
Minneapolis, Minnesota 55421

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55mm towed gun howitzer, advanced weapons, composite cradle, composite hydraulic actuators, composite trails, field artillery weapon, firing stability analysis, howitzers, hydraulic control valves with force feedback, hydraulic joystick control of gun direction, hydraulic inertial rammer, hydraulic opening breech, hydraulic primer autoloader, Lightweight towed howitzer demonstrator (LTHD) , load out of battery howitzer, mortar howitzer, recoil energy recovery, recoil mechanism, metal matrix composites , titanium muzzle brake, titanium platform, titanium spade, titanium walking beams, thermal stability, towing stability analysis, unconventional weapons, and weight reduction of artillery		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
<p>The LTHD (Lightweight Towed Howitzer Demonstrator) was to be a 9,000 lb equivalent to the M198, transportable via Blackhawk helicopter, with reduced emplacement time using fewer personnel. The FMC design achieved weight reduction via a mortar-like configuration, composites structure, and hydraulic actuators. Recovery of power from the recoil system, in turn, facilitated crew reduction via hydraulic emplacement, four-way joystick tube lay, and power ramming. FMC completed Concept Development (Ph I) and two-thirds of Detailed Design (Ph II) prior to funds running out.</p> <p style="text-align: right;">Key words:</p>		

DD FORM 1 JAN 73 1473

EDITION OF 1 NOV 65 IS OBSOLETE

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

Vol/Sec	Description
6	Technical Data Package
6/050	Table of Contents
6/100	Distribution Log
6/110	Overall Views
6/120	Master Schedule
6/130	Bill of Material
6/140	Assembly Drawings
6/150	Detail Drawings
	Accumulator - Counterrecoil.....T-12585718, 5719
	Accumulator - Equilibration.....5720-002
	Accumulator - Reservoir.....5720-003
	Actuator - Elevation.....5716
	Actuator - Equilibration.....5712, 5713
	Actuator - Inertial Rammer.....5729
	Actuator - Lanyard.....5727
	Actuator - Load Position.....5728
	Actuator - Primer.....5726
	Actuator - Traverse.....5714
	Actuators - Walking Beam.....5720, 22, 23, 24
	Axle.....5747
	Brake Caliper - Parking.....5750
	Brake Caliper - Service.....5749
	Brake Disc.....5748
	Collar Forging.....5769
	Collar - machined.....5781-001 thru -005
	Counterrecoil Cylinder Assembly.....5710-275
	Cradle.....5830, 5831
	Direct Fire Scope.....5970
	Gimbal.....5810, 5811
	Manifold - front-cradle.....5944
	Manifold - mid-cradle.....5943
	Muzzle Brake.....5765, 5766
	Platform.....5800, 5801
	Primer Autoloader.....5802
	Rail.....5963, 5964, 6016-001
	Recoil cylinder assembly.....5710-275
	Spade.....5820, 5821
	Trail.....5710-595
	Tube.....5767
	Valveblock - Cannoneer 1.....5900
	Valveblock - Gunner's Joystick.....5904
	Valveblock - Walking Beam Actuator.....5908, 5909
	Wheel Hub.....5741

DESCRIPTION: TECHNICAL DATA PACKAGE

The TDP Drawing Index is found in the TDP, Dwg. No. 12585710-125.

STATUS:

The status of the Technical Data Package is known as of 2 March 1987:

No. of Dwgs.	%	Status
233	55.2%	Detailed
170	40.3%	Layout
19	4.5%	Not firm; remaining
422	100.0%	

AUTHORS: Dave Boudreau, Scott Dacko, and as noted on drawings.



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SYM	DESCRIPTION	DATE


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PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001
U.S. ARMY

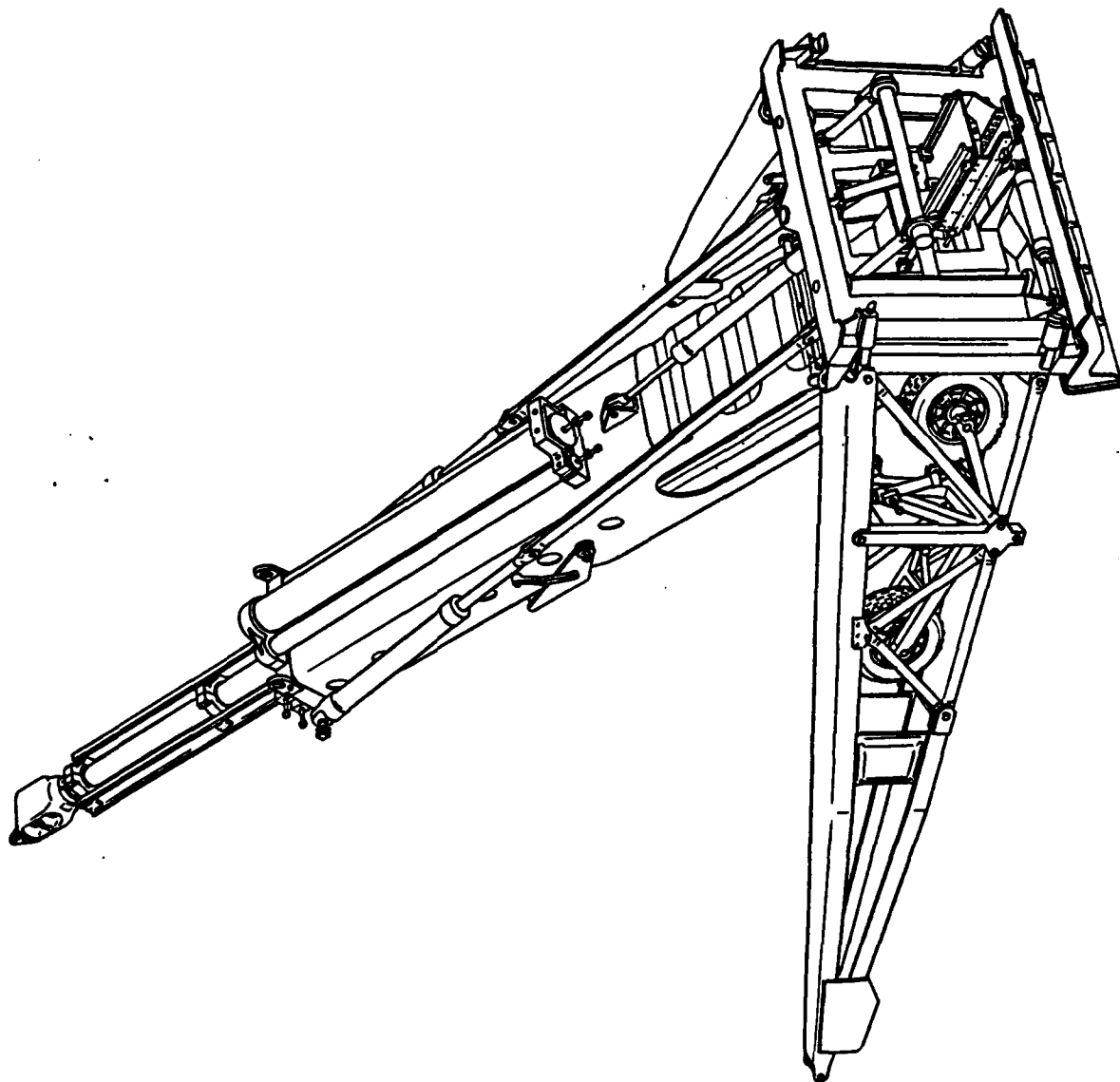
FMC.LTHD TECH DATA PACKAGE

SIZE B	FSCM NO. 19200	T-1258 5710 / E	
SCALE --	UNIT WT. --	SHEET 1071	

APPLICATION		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	
NEXT ASSY	USED ON	YP		TOLERANCES ON DECIMALS ±		DRAFTSMAN	CHECKER
		TS		FRACTIONS ±		B. ANDERSON	
		EL2		THIRD ANGLE PROJECTION		ENGR	ENGR
		RA					
		BH				ENGR	ENGR

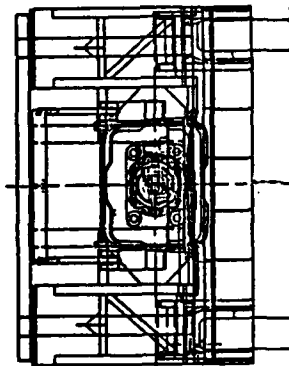
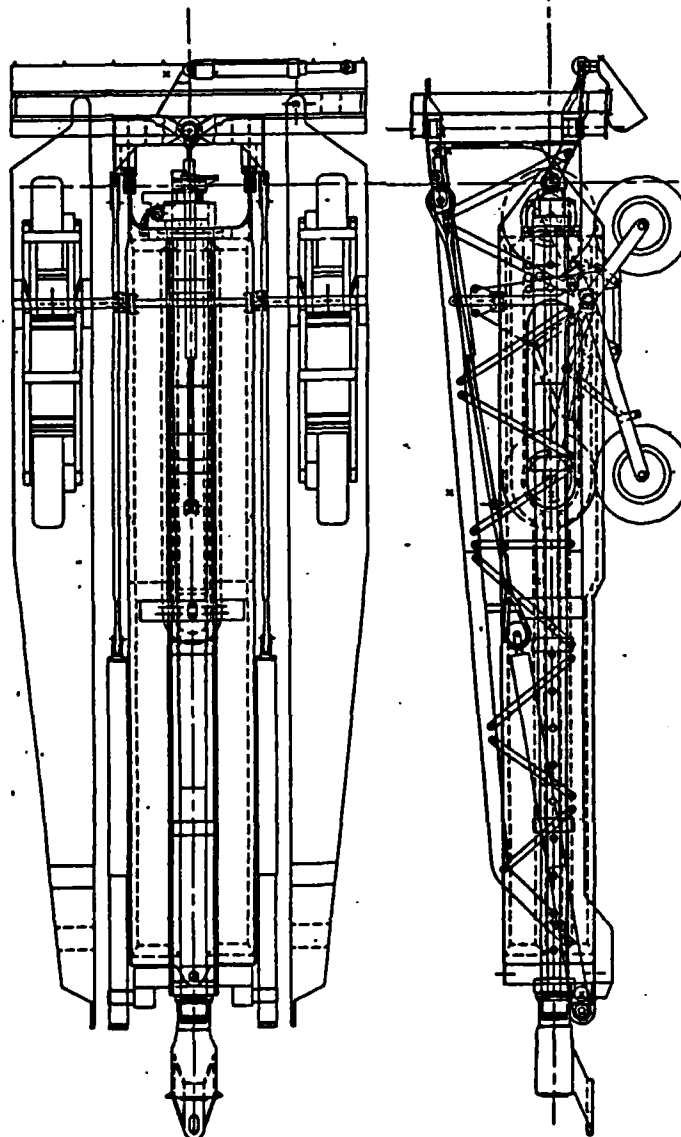
**SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED**

LIGHTWEIGHT TOWED
HOWITZER DEMONSTRATOR
M. RUMPSA
PERSPECTIVE OVERVIEW
T-12585710-001 / B



DETAILING WILEY

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



PART NO.

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		DRAFTSMAN	CHECKER		
TOW POSITION - SEE-THRU		ENGR	ENGR		
		ENGR	ENGR		
SIZE B 19200		FACM NO. T-12585710-075/A			
SCALE - UNIT WT. - SHEET 1 OF 1					
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FRACTIONS ±		THIRD ANGLE PROJECTION			
MECHANICAL PROPERTIES					
YP					
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BH					
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NEXT ASSY	USED ON				
APPLICATION					

SMCAR FORM 66: 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REV. J 2-MAR-87 ARN-2000

Part Number	Sz	Description	Qty	UH	Weight	Matl	Supplier	Called out at:	Responsibility 1	Responsibility 2
1258 3710-001	..	LTHD.TDP.....	..0	..	..	..	..	..	..	..
1258 3710-001	..	Perspective Overview.....	..0	..	..	..	..	..	..	..
1258 3710-025	..	Firing Position Outline.....	..0	..	..	..	..	..	..	..
1258 3710-050	..	Tow Position Outline.....	..0	..	..	..	..	..	..	..
1258 3710-075	..	Tow Position See-Thru.....	..0	..	..	..	..	..	..	..
1258 3710-100	..	Assembly Sequence.....	..0	..	..	..	..	..	..	..
1258 3710-115	..	Book of standard documents.....	..0	..	..	..	..	..	..	..
1258 3710-100	..	Book of analysis.....	..0	..	..	..	..	..	..	..
1258 3710-125	..	Ph-log (easy dig dash nos,wt)	..0	..	..	..	..	..	..	..
1258 3710-135	..	Assembly requirements, general	..0	..	..	..	..	..	..	..
1258 3710-1500	..	..	..	..	..	..	..
1258 3710-175	..	Alignment ways to DE/AL axis	..0	..	..	..	..	..	..	..
1258 3710-200	..	Basic issue items & container	..0	..	..	..	..	..	..	..
1258 3710-225	..	Brake system and functional	..0	..	..	..	..	..	..	..
1258 3710-240	..	Canon assy into cradle assy	..0	..	..	..	..	..	..	..
1258 3710-250	..	Canon assembly.....	..0	..	..	..	..	..	..	..
1258 3710-260	..	Compound act assy to cradle	..0	..	..	..	..	..	..	..
1258 3710-275	..	Compound act assembly.....	..0	..	..	..	..	..	..	..
1258 3710-3100	..	..	..	..	..	..	..
1258 3710-3150	..	..	..	..	..	..	..
1258 3710-340	..	Cradle assembly, to label	..0	..	..	..	..	..	..	..
1258 3710-400	..	Fire control and optics.....	..0	..	..	..	..	..	..	..
1258 3710-410	..	Sant Charts.....	..0	..	..	..	..	..	..	..
1258 3710-425	..	Global-platform-spade subassy	..0	..	..	..	..	..	..	..
1258 3710-440	..	Hydraulic functional.....	..0	..	..	..	..	..	..	..
1258 3710-465	..	Hydraulic piping network.....	..0	..	..	..	..	..	..	..
1258 3710-470	..	Hydraulic system startup/chart	..0	..	..	..	..	..	..	..
1258 3710-475	..	Load tray and way.....	..0	..	..	..	..	..	..	..
1258 3710-485	..	Long Load Item List.....	..0	..	..	..	..	..	..	..
1258 3710-5900	..	..	..	..	..	..	..
1258 3710-5950	..	..	..	..	..	..	..
1258 3710-500	..	Maneplates and locations.....	..0	..	..	..	..	..	..	..
1258 3710-5100	..	..	..	..	..	..	..
1258 3710-555	..	Recoil cylinder assy.....	..0	..	..	..	..	..	..	..
1258 3710-560	..	Spare parts.....	..0	..	..	..	..	..	..	..
1258 3710-575	..	Speedshift assy.....	..0	..	..	..	..	..	..	..
1258 3710-580	..	Tailights and wiring.....	..0	..	..	..	..	..	..	..
1258 3710-595	..	Trail assembly to system.....	..0	..	..	..	..	..	..	..
1258 3710-600	..	Trail subassembly.....	..0	..	..	..	..	..	..	..
1258 3710-625	..	Walking beam-whs and axles	..0	..	..	..	..	..	..	..
1258 3710-650	..	Walking beams.....	..0	..	..	..	..	..	..	..
1258 3710-675	..	Walking beams to trails	..0	..	..	..	..	..	..	..
1258 3710-0	..	..	..	..	..	..	..
1258 3710-750	..	Weights, not included, in LTHD	..0	..	..	..	..	..	..	..
1258 3710-775	..	Trade studies.....	..0	..	..	..	..	..	..	..
1258 3710-800	..	TDP supporting documents.....	..0	..	..	..	..	..	..	..
1258	..	Not included in the TDP	..0	..	..	..	..	..	..	..
1258 3710-805	..	Book of dynamic analysis.....	..0	..	..	..	..	..	..	..
1258 3710-810	..	Book of project specifications	..0	..	..	..	..	..	..	..
1258 3710-815	..	Book of standards (ie, etc)	..0	..	..	..	..	..	..	..
1258 3710-820	..	Book of structural analysis	..0	..	..	..	..	..	..	..
1258 3710-825	..	Operational procedures.....	..0	..	..	..	..	..	..	..
1258 3710-830	..	Quality program plan.....	..0	..	..	..	..	..	..	..
1258 3710-835	..	Reliability analysis.....	..0	..	..	..	..	..	..	..

<u>Part Number</u>	Sz Description	Bty UN	Wt/UN	Weight	Matl Supplier Called out at:	Assembly 1 Repability 2	Assembly 1 Repability 2
1258 5710-840 ..	Test plans.....	.0 .0	.	.....	.....	.....	.....
1258 5710-845 ..	" " "	.0 .0	.	.....	.....	.....	.....
1258 5710-850 ..	" " "	.0 .0	.	.....	.....	.....	.....
1258 5710-900 ..	Index to LTR file (abridged) ..	.0 .0	.	.....	.....	.....	.....
1258 5710-925 ..	Index to contributors (abdgd)	.0 .0	.	.....	.....	.....	.....
1258 5710-950 ..	" " "	.0 .0	.	.....	.....	.....	.....
1258 5710-	" " "	.0 .0	.	.....	.....	.....	.....

Part Number	Sz	Description	Qty	UN	Wt/UM	Weight	Natl	Supplier	Called out at:	Responsibility 1	Responsibility 2
1258 5763	...	Tube, equilib act at inside...	..1	pc	...	20.50	coop	buy/NOD.	...	...	...
1258 5764	...	Clasp, set...	..3	pc	...	...	aluc	NOD	...	...	...
1258 5765	...	Brake, muzzle, casting...	..1	pc	190.0	190.0	ti64	ti-tach.	...	...	...
1258 5766	...	Brake, muzzle, machining...	..1	pc	-9.0	-9.0	...	buy	...	...	...
1258 5767	...	Tube, barrel...	..1	pc	2480.0	2480.0	...	ARDEC	...	...	...
1258 5768	...	Bolting plate...	..2	pc	...	...	ti64	NOD	5710-475	...	...
1258 5769	...	Collar, forging...	..8	pc	29.37	234.96	aluc	DNA	...	...	...
1258 5770	...	Lock arm, fwd trail lock, lwr	..2	pc	...	.5	ti64	buy	5710-600	...	...
1258 5771	...	Nut, speedshift pivot, spl	..1	pc	...	...	ti64	NOD	...	...	...
1258 5772	...	Cradle stop, speedshift...	..1	pc	...	...	nylo	buy/NOD	...	...	...
1258 5773	...	Bolting plate...	..2	pc	...	.25	ti64	NOD	5710-475	...	...
1258 5774	...	Bushing, speedshift plate, lwr	...	...	...	...	ti64	NOD	...	...	...
1258 5775	...	Bushing, speedshift plate, upr	...	...	...	...	ti64	NOD	...	...	...
1258 5776	...	Global, speedshift...	..1	pc	...	...	ti64	NOD	...	...	...
1258 5777	...	Global mount, speedshift...	..1	pc	...	...	ti64	NOD	...	...	...
1258 5778	...	Sleeve, loadray...	..4	pc	...	.14	coop	buy/NOD	5710-475	...	...
1258 5779	...	Tube, equilib act at, outside	..4	pc	...	...	coop	buy/NOD	...	...	...
1258 5780	...	Frame, speedshift peg	..1	pc	...	...	...	NOD	...	...	...
1258 5781	...	Collar(tube), machined...	...	...	...	...	...	...	...	...	...
1258 5781-001	...	Collar, set, machining rear set	..1	st	47.4	47.4	sti	NOD	...	...	...
1258 5781-002	...	Collar, set, machining...	..2	st	-21.16	-42.32	aluc	NOD	...	...	...
1258 5781-003	...	Collar, set, machining...	..2	st	-20.78	-41.56	aluc	NOD	...	...	...
1258 5781-004	...	Collar, set, machining...	..2	st	-20.26	-40.52	aluc	NOD	...	...	...
1258 5781-005	...	Collar, set, machining...	..2	st	-19.56	-39.12	aluc	NOD	...	...	...
1258 5782	...	Clasp plate, rail...	..10	pc	...	.64	aluc	NOD	5710-475	...	...
1258 5783	...	Bar, spreader...	..2	pc	...	.40	cfe	...	5710-475	...	...
1258 5784	...	Stiffener, center loadray...	..4	pc	...	...	...	Benet	...	...	...
1258 5785	...	Water-vit-supplied item...	...	...	...	...	...	...	...	...	...
1258 5786	...	Key, muzzle brake...	..1	pc	...	...	sti	ARDEC	...	...	...
1258 5787	...	Thrust collar, muzzle brake...	..1	pc	24.0	24.0	sti	ARDEC	...	...	...
1258 5788	...	Band, inner brace...	..1	pc	23.72	23.72	sti	ARDEC	...	...	...
1258 5789	...	Breach...	..1	pc	495.0	495.0	coop	NOD	...	...	...
1258 5790	...	Disk, speedshift...	..1	pc	...	...	...	...	...	...	...
1258 5791	...	Cable, equilibration...	..2	pc	...	...	...	buy	5710-650	...	...
1258 5792	...	Beam, leading, LH, mach...	..1	pc	-2.8	-2.8	ti64	NOD	5710-650	...	...
1258 5793	...	Beam, lagging, LH, mach...	..1	pc	-2.3	-2.3	ti64	NOD	5710-650	...	...
1258 5794	...	Beam, leading, RH, weld...	..1	pc	-55.0	55.0	ti64	NOD	5710-650, 5732	...	...
1258 5795	...	Beam, lagging, RH, weld...	..1	pc	-30.0	30.0	ti64	NOD	5710-650, 5733	...	...
1258 5796	...	Beam, leading, LH, weld...	..1	pc	-55.0	55.0	ti64	NOD	5710-650, 5792	...	...
1258 5797	...	Beam, lagging, LH, weld...	..1	pc	-30.0	30.0	ti64	NOD	5710-650, 5793	...	...
1258 5798	...	Button, loadray, wear...	..4	pc	...	...	...	...	5710-475	...	...
1258 5799	...	Pad, wear, platform...	..1	pc	...	5.0	...	...	...	...	...
1258 5800	...	Platform weldment...	..1	pc	354.6	354.6	ti64	NOD	...	...	...
1258 5801	...	Platform each...	..1	pc	-1.7	-1.7	ti64	NOD	...	...	...
1258 5802	...	Prism auto loader-less actu	..1	pc	45.0	45.0	...	borrow	...	...	...
1258 5803	...	Cross support, RH, LH...	..2	pc	-1.5	-3.0	ti64	NOD	5710-650	...	...
1258 5804	...	Cross support, weldment...	..2	pc	10.0	20.0	ti64	NOD	1258-5803	...	...
1258 5805	...	Mount, traverse actuator...	..1	pc	...	...	cfe	NOD	...	...	...
1258 5806	...	Pin, cylinder, wheel actuator	..8	pc	...	...	sti	...	...	...	...
1258 5807	...	Pin, x-support pivot...	..4	pc	...	1.1	sti	...	...	...	...
1258 5808	...	Shim, loadray support...	..1	st	...	.06	...	...	...	...	...
1258 5809	...	Handle, locking, x-support...	..2	pc	1.0	2.0	ti64	NOD	5710-650	...	...
1258 5810	...	Global weldment...	...	...	248.0	248.0	ti64	NOD	1258 5811	...	...
1258 5811	...	Global machining...	...	...	-4.0	-4.0	...	NOD	...	...	...
1258 5812	...	Bracket, x-spt...	..2	pc	...	...	aluc	NOD	5710-650	...	...
1258 5813	...	Guide, spring, x-spt...	..2	pc	...	...	catl	NOD	5710-650	...	...
1258 5814	...	Strut, forward loadray...	..2	pc	...	.48	cfe	...	...	...	...
1258 5815	...	Strut, rear loadray...	..2	pc	...	.64	cfe	...	...	...	...
1258 5816	...	Band, outer brace...	..1	pc	92.15	92.15	aluc	buy	...	...	...

Part Number	Rs	Description	Qty	UN	Wt/UN	Weight	Mati	Supplier	Called out at:	Responsibility 1	Responsibility 2
1258 5817....	..	Pin, grooved, loadray.....	.2	pc	.....	.08	crs	.....	.....	.....	.....
1258 5818....	..	Support, loadray.....	.4	pc	.....	.18	cfe	.....	.....	.....	.....
1258 5819....	..	Lever, park brake, LH.....	.1	pc	.....	---	cati	MOD.....	.....	.....	.....
1258 5820....	..	Spade weldment.....	..	pc	226.0	226.0	ti64	MOD.....	1258 5821	.....	.....
1258 5821....	..	Spade machining.....	..	pc	..	..	..	MOD.....	.....	.....	.....
1258 5822....	..	Rod, park brake.....	.2	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5823....	..	Rod end, park brake.....	.4	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5824....	..	Shaft, park brake.....	.2	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5825....	..	Hes end, shaft park brake.....	.2	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5826....	..	Bearing block, park brake.....	.4	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5827....	..	Pin, park brake (threaded)...	.4	pc	..	..	..	MOD.....	5710-650	.....	.....
1258 5828....	..	Lever, park brake, RH.....	.1	pc	.....	..	..	MOD.....	.....	.....	.....
1258 5829....	..	Gasket, brg bit.....	.4	pc	.....	.02	gerl	buy.....	.....	.....	.....
1258 5830....	..	Cradle fabrication.....	.1	pc	380.0	380.0	coop	buy.....	1258 5831	.....	.....
1258 5831....	..	Cradle machining.....	..	pc	..	..	..	MOD.....	5718-350	.....	.....
1258 5832....	..	Ground pad, trail.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5833....	..	Plate, top loadray.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5834....	..	Pin, clevis, large (trail)...	.16	pc	..	..	..	MOD.....	.....	.....	.....
1258 5835....	..	Pin, clevis, small (trail)...	.64	pc	..	..	..	MOD.....	.....	.....	.....
1258 5836....	..	Guide, shock mount rear.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5837....	..	Pad, bearing loadray.....	.4	pc	..	..	..	MOD.....	.....	.....	.....
1258 5838....	..	Lug, large (trail), each.....	.12	pc	..	..	..	MOD.....	.....	.....	.....
1258 5839....	..	Lug, small (trail), each.....	.56	pc	..	..	..	MOD.....	.....	.....	.....
1258 5840....	..	Frame, loadray.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5841....	..	Trail, upper RH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5842....	..	Trail, lower rear RH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5843....	..	Trail, lower front RH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5844....	..	Spacer, clevis.....	.16	pc	..	..	..	MOD.....	.....	.....	.....
1258 5844-001	..	Spacer, clevis, 2.75.....	.16	pc	..	..	..	MOD.....	.....	.....	.....
1258 5844-002	..	Spacer, clevis, 2.0.....	.16	pc	..	..	..	MOD.....	.....	.....	.....
1258 5845....	..	Bulthead, front.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5846....	..	Bulthead, wheel, machining...	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5847....	..	Bulthead, wheel, weldment...	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5848....	..	Tube, trunnion, F C.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5849....	..	Strut, actuator, F C.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5850....	..	Strut, side support, F C.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5851....	..	Bracket, top, F C.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5852....	..	Bracket, bottom, F C.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5853....	..	Frame, spt, F C.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5854....	..	Shla, pack trail/cradle.....	.4	st	..	..	..	MOD.....	.....	.....	.....
1258 5855....	..	Plate, slotted, trail/cradle...	.4	pc	..	..	..	MOD.....	.....	.....	.....
1258 5856....	..	End bracket, trail LH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5857....	..	End bracket, trail RH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5858....	..	Bar, torque.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5859....	..	End cap, F C, RH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5860....	..	End cap, F C, LH.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5861....	..	Pin, piston pivot.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5862....	..	Button, guide.....	.4	pc	..	..	..	MOD.....	.....	.....	.....
1258 5863....	..	Lug, cradle/trail.....	.4	pc	..	..	..	MOD.....	.....	.....	.....
1258 5864....	..	Bar, spt, cradle/trail.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5865....	..	Bar, spt, cradle/trail.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5866....	..	Link, bar, cradle/trail.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5867....	..	Loadray.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5868....	..	Wearstrip.....	.3	pc	..	..	..	MOD.....	.....	.....	.....
1258 5869....	..	Base spring, projectile.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5870....	..	Strip, backstop.....	.1	pc	..	..	..	MOD.....	.....	.....	.....
1258 5871....	..	Bracket, backstop atg.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5872....	..	Bar, side shock mount.....	.2	pc	..	..	..	MOD.....	.....	.....	.....
1258 5873....	..	Bar, front shock mount.....	.1	pc	..	..	..	MOD.....	.....	.....	.....

Part Number	Sz	Description	Qty	UN	Wt/UN	Weight	Matl	Supplier	Called out at:	Republty 1	Republty 2
1258 5874....	..	Bar, rear shock mount.....	..1	pc	.....	.36	cfe.	MOB.....	5710-475.	.....	.....
1258 5875....	..	Bracket, rear shock mount.....	..1	pc	.....	1.22	alun	MOB.....	5710-475.	.....	.....
1258 5876....	..	Guide, shock mount front.....	..4	pc	.....	1.33	plun	MOB.....	5710-475.	.....	.....
1258 5877....	..	Mount, projectile stop.....	..1	pc	.....	.34	alun	MOB.....	5710-475.	.....	.....
1258 5878....	..	Pad, projectile stop.....	..1	pc	.....	.30	nylo	MOB.....	5710-475.	.....	.....
1258 5879....	..	Mount, proj stop pad, weld.....	..1	pc	.....	.26	cfe.	MOB.....	5710-475.	.....	.....
1258 5880....	..	Cushion, stop pad.....	..1	pc	.....	.26	plun	MOB.....	5710-475.	.....	.....
1258 5881....	..	Plate, retainer.....	..4	pc	.....	.03	cfe.	MOB.....	5710-475.	.....	.....
1258 5882....	..	Pin, proj stop pad pivot.....	..1	pc	.....	.14	alun	MOB.....	5710-475.	.....	.....
1258 5883....	..	Housing, track rollers.....	..4	pc	.....	1.32	cfe.	MOB.....	5710-475.	.....	.....
1258 5884....	..	Pad, bearing.....	..4	pc	.....	.12	plun	buy/MOB.	5710-475.	.....	.....
1258 5885....	..	Support.....	..4	pc	.....	3.72	cfe.	MOB.....	5710-475.	.....	.....
1258 5886....	..	Pin, headed piston loadtray.....	..1	pc	.....	.02	tl44	buy/MOB.	5710-475.	.....	.....
1258 5887....	..	Roller, loadtray.....	..16	pc	.....	1.12	tl1.	torringt	5710-475.	.....	.....
1258 5888....	..	Hinge, bracket outer.....	..4	pc	.....	.64	tl64	MOB.....	5710-475.	.....	.....
1258 5889....	..	Hinge, bracket inner.....	..4	pc	.....	.60	tl64	MOB.....	5710-475.	.....	.....
1258 5890....	..	Washer, bumper.....	..2	pc	.....	.03	plun	MOB.....	5710-475.	.....	.....
1258 5891....	..	Handle, lifting.....	..4	pc	.....	.28	plun	MOB.....	5710-475.	.....	.....
1258 5892....	..	Valve block, equil on/off.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5893....	..	Valve block, equil incr/decr.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5894....	..	Valve block, eq/res prestage.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5894-001	..	Equil press gage.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5894-002	..	Valve block, equil press.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5895....	..	Valve block, ton & replace.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5896....	..	PC.chk.for.equilibrators.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5897....	..	Trail, upper LH.....	..1	pc	.....	48.0	coop	buy.....	.....	.....	.....
1258 5898....	..	Trail, lower rear LH.....	..1	pc	.....	47.0	coop	buy.....	.....	.....	.....
1258 5899....	..	Trail, lower front LH.....	..1	pc	.....	32.0	coop	buy.....	.....	.....	.....
1258 5900....	..	Valve block, cannoner i.....	..1	pc	.....	15.00	.....	Harotta.	.....	.....	.....
1258 5901....	..	Valve block, front slide.....	..1	pc	.....	8.0	.....	Harotta.	.....	.....	.....
1258 5902....	..	Flow control, raising.....	..1	pc	.....	7.0	.....	Harotta.	.....	.....	.....
1258 5903....	..	Valve block, glabal.....	..1	pc	.....	15.0	.....	Harotta.	.....	.....	.....
1258 5903-001	..	Fuze.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5903-002	..	Relif.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5903-003	..	Joystick, gunner.....	..1	pc	.....	2.0	.....	Harotta.	.....	.....	.....
1258 5904....	..	Joystick, assistant gunner.....	..1	pc	.....	2.0	.....	Harotta.	.....	.....	.....
1258 5905....	..	Handpump,gunner.....	..1	pc	.....	8.0	.....	Harotta.	.....	.....	.....
1258 5906....	..	Pump.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5906-001	..	Selector valve.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5906-002	..	On/off valve.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5906-003	..	Handpump, assistant gunner.....	..1	pc	.....	8.0	.....	Harotta.	.....	.....	.....
1258 5907....	..	Pump.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5907-001	..	Selector valve.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5907-002	..	On/off valve.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5907-003	..	Valve block, wheel contr, left.....	..1	pc	.....	5.0	.....	Harotta.	.....	.....	.....
1258 5908....	..	Valve block, wheel contr, right.....	..1	pc	.....	5.0	.....	Harotta.	.....	.....	.....
1258 5909....	..	Valve, wheel actuator.....	..4	pc	.....	12.0	.....	Harotta.	.....	.....	.....
1258 5910....	..	General, ctrl, valve, regats.....	..0	pc	.....	6.0	.....	Harotta.	.....	.....	.....
1258 5911....	..	Cartridge c'recoil accp chck.....	..1	pc	.....	5.0	.....	Harotta.	.....	.....	.....
1258 5912....	..	Valve, relief.....	..2	pc	.....	2.0	.....	Harotta.	.....	.....	.....
1258 5913....	..	Valve, pressure reducing.....	..1	pc	.....	2.0	.....	Harotta.	.....	.....	.....
1258 5914....	..	Equilibration, intensifier.....	..1	pc	.....	2.5	.....	Harotta.	.....	.....	.....
1258 5915....	..	Valve, check, pilot opr, accus.....	..1	pc	.....	2.5	.....	Harotta.	.....	.....	.....
1258 5916....	..	Valve, battery.....	..1	pc	.....	1.5	.....	Harotta.	.....	.....	.....
1258 5917....	..	Valve, lead position.....	..1	pc	.....	1.5	.....	Harotta.	.....	.....	.....
1258 5918....	..	Elevation control.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5919....	..	Traverse control.....	..1	pc	.....	.....	.....	Harotta.	.....	.....	.....
1258 5920....1	pc	.....	.....	.....	Harotta.	.....	.....	.....

Part Number	Qty	Description	UN	Wt/LB	Weight	Matl	Supplier	Called out at:	Reparability	Capacity
1258 5921....	..1	Valve, check, po 1d pos to R.	pc	.....	1.0	.....	Marotta.	.....	.....	.....
1258 5922....	..3	lock-up for oil to band.....	pc	.....	12.0	.....	Marotta.	.....	.....	.....
1258 5922-001	.....	On/off stage.....	.....	.....	.....	.....	.....	.....	.....	.....
1258 5922-002	.....	Relief stage.....	.....	.....	.....	.....	.....	.....	.....	.....
1258 5923....	..1	check to retract barrel.....	pc	.....	.....	.....	.....	.....	.....	.....
1258 5924....	..1	Support, forward track.....	pc	2.70	2.70 cfs.	MOB.....	MOB.....	5710-475.	.....	.....
1258 5925....	..1	Track, forward loadtray.....	pc	9.00	9.00 cfs.	MOB.....	MOB.....	5710-475.	.....	.....
1258 5926....	..2	Track, center loadtray.....	pc	.....	1.32	tl84	MOB.....	5710-475.	.....	.....
1258 5927....	..2	Track, rear loadtray.....	pc	.....	1.98	cfs.	MOB.....	5710-475.	.....	.....
1258 5928....	..1	Guide, rear track roller RH.	pc	.....	1.95	cfs.	MOB.....	5710-475.	.....	.....
1258 5929....	..1	Bar, track support.....	pc	.....	.87	cfs.	MOB.....	5710-475.	.....	.....
1258 5930....	..1	Bar, track support.....	pc	1.53	1.53 cfs.	MOB.....	MOB.....	5710-475.	.....	.....
1258 5931....	..2	Bulkhead, middle.....	pc	1.15	3.0 comp	MOB.....	MOB.....	.....	.....	.....
1258 5932....	..2	Bulkhead, rear.....	pc	4.0	8.0	comp	MOB.....	.....	.....	.....
1258 5933....	..4	Lattice, 2.00 weldments.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5933-001	..4	Lattice, 29.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5933-002	..4	Lattice, 31.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5933-003	..4	Lattice, 33.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5933-004	..4	Lattice, 37.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5933-005	..4	Lattice, 41.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5934....	.....	Lattice, 2.75 weldments.....	.....	.....	.....	.....	MOB.....	.....	.....	.....
1258 5934-001	..4	Lattice, 43.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5934-002	..4	Lattice, 44.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5934-003	..4	Lattice, 45.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5934-004	..4	Lattice, 46.0.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5935....	..1	Spacer, global bearing, lower	pc	.....	.82	sti.	MOB.....	.....	.....	.....
1258 5936....	..1	Spacer, global bearing, upper	pc	.....	.8	sti.	MOB.....	.....	.....	.....
1258 5937....	..1	Guide, global bearing, lower	pc	.....	1.95	cfs.	MOB.....	.....	.....	.....
1258 5938....	..1	Guide, global bearing, upper	pc	.....	1.95	cfs.	MOB.....	.....	.....	.....
1258 5939....	..4	Bracket, rear track roller.....	pc	21	.....	.....	.....	5710-475.	.....	.....
1258 5940....	..1	Bar, track support.....	pc	.....	.93	cfs.	.....	5710-475.	.....	.....
1258 5941....	..2	Shock primary.....	pc	.....	.....	.....	Enidme.	5710-475.	.....	.....
1258 5942....	..2	Shock, main.....	pc	.....	5.00	comp	Enidme.	5710-475.	.....	.....
1258 5943....	..1	Mid-crible manifold.....	pc	175.00	175.00	aluc	MOB.....	.....	.....	.....
1258 5944....	..1	Front crdle manifold.....	pc	215.00	215.00	aluc	MOB.....	.....	.....	.....
1258 5945....	..2	Cylinder, recoil.....	pc	42.81	85.67	aluc	.....	.....	.....	.....
1258 5946....	..1	Cylinder, counter recoil.....	pc	45.87	45.87	aluc	.....	.....	.....	.....
1258 5947....	..2	Rod/piston, recoil cyl.....	pc	45.61	91.22	stl	.....	.....	.....	.....
1258 5948....	..1	Rod/piston, c'recoil cyl.....	pc	45.75	45.75	stl	.....	.....	.....	.....
1258 5949....	..2	Griffes rod.....	pc	11.71	23.41	aluc	.....	.....	.....	.....
1258 5950....	..2	Guide rod.....	pc	11.71	23.41	aluc	.....	.....	.....	.....
1258 5951....	..4	End cap, front.....	pc	4.95	19.80	aluc	.....	.....	.....	.....
1258 5952....	..4	End cap, rear.....	pc	1.96	7.84	aluc	.....	.....	.....	.....
1258 5953....	..4	Recoil cyl and cap washer.....	pc	1.55	2.20	.....	.....	.....	.....	.....
1258 5954....	..4	Collar, piston rod.....	pc	1.05	4.20	stl	.....	.....	.....	.....
1258 5955....	..4	Nut, piston rod.....	pc	1.29	5.16	aluc	.....	.....	.....	.....
1258 5956....	..3	Way bearing.....	pc	.....	.....	.....	.....	.....	.....	.....
1258 5957....	..1	Way bearing.....	pc	.....	.....	.....	.....	.....	.....	.....
1258 5958....	..2	Clamp, rail.....	pc	.....	1.48	.....	.....	.....	.....	.....
1258 5959....	..2	Torque pin, bottom.....	pc	.....	3.17	.....	MOB.....	.....	.....	.....
1258 5960....	..2	Slide bushing, inside.....	pc	.....	.49	.....	MOB.....	.....	.....	.....
1258 5961....	..2	Slide bushing, outside.....	pc	.....	.74	.....	MOB.....	.....	.....	.....
1258 5962....	..24	Roller, loadtray support.....	pc	.....	1.92	sti.	Terriagt	5710-475.	.....	.....
1258 5963....	..1	Rail, machining LH centering.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5964....	..1	Rail, machining RH.....	pc	.....	.....	.....	MOB.....	.....	.....	.....
1258 5965....	..1	Key, ring.....	pc	.....	.20	sti.	Benat...	.....	.....	.....
1258 5966....	..1	Key, branch.....	pc	.....	.....	sti.	Benat...	.....	.....	.....
1258 5967....	..4	Clamp plate, ring.....	pc	.....	aluc	.....	MOB.....	.....	.....	.....
1258 5968....	..10	Key, collar, torsional.....	pc	.....	.....	.....	MOB.....	.....	.....	.....

Part Number	Size	Description	Qty	UN	HS/UN	Weight	Matl	Supplier	Called out at:	Responsibility 1	Responsibility 2
1258 4002-018	..	Bolt, 1/2 collar.....	20	PC	35	7.0	cttl	.....	.....	.....	.....
1258 4002-019	..	Bolt, 1/2 collar.....	20	PC	14	2.8	cttl	.....	.....	.....	.....
1258 4002-020	..	Bolt, ring plate clamp.....	8	PC	14	.....	cttl	.....	.....	.....	.....
1258 4002-021	..	Bolt, 1/2 cradle/trail tie-in.....	15	PC	09	1.44	cttl	.....	710-350.....	.....	.....
1258 4002-022	..	Bolt, 1/4 leadtray.....	4	PC	02	.11	cttl	.....	710-475.....	.....	.....
1258 4002-023	..	Bolt, 1/4 leadtray.....	48	PC	01	1.17	cttl	.....	710-475.....	.....	.....
1258 4002-024	..	Bolt, 1/4 leadtray.....	4	PC	01	.....	cttl	.....	710-475.....	.....	.....
1258 4002-025	..	Bolt, 1/4 leadtray.....	4	PC	01	.....	cttl	.....	710-475.....	.....	.....
1258 4002-026	..	Bolt, 3/8 leadtray.....	16	PC	01	.....	cttl	.....	710-475.....	.....	.....
1258 4002-027	..	Bolt, 3/8 leadtray.....	6	PC	.....	.19	cttl	.....	710-475.....	.....	.....
1258 4002-028	..	Bolt, 1/2 pad spacer.....	20	PC	01	.20	tl	.....	.....	.....	.....
1258 4002-029	..	Bolt, 3/8 platform/trail.....	4	PC	.....	.53	cttl	.....	.....	.....	.....
1258 4002-030	..	Bolt, key, tube/breach.....	1	PC	14	.14	stl	.....	.....	.....	.....
1258 4002-031	..	Bolt, 1/4 hex end, brake.....	2	PC	02	.04	cttl	.....	.....	.....	.....
1258 4002-032	..	Bolt, and cap recoil.....	2	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-033	..	Bolt, and cap c'recoil/en.....	1	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-034	..	Bolt, and cap c'recoil.....	1	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-035	..	Bolt, and cap recoil.....	4	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-036	..	Bolt, and cap c'recoil.....	2	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-037	..	Bolt, and cap c'recoil.....	2	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-038	..	Bolt, and cap runner.....	.....	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-039	..	Bolt, and cap lead pin ac.....	.....	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-040	..	Bolt, leadtray.....	8	PC	.....	.25	tl44	.....	710-475.....	.....	.....
1258 4002-041	..	Bolt, leadtray.....	16	PC	.....	.11	cttl	.....	710-475.....	.....	.....
1258 4002-042	..	Bolt, travel lock.....	4	PC	.....	.....	.....	.....	.....	.....	.....
1258 4002-043	..	Bolt, 1/4 track spgt, l.t.....	2	PC	.....	.05	tl44	.....	710-475.....	.....	.....
1258 4002-044	..	Bolt, 1/4 track spgt, l.t.....	2	PC	.....	.02	tl44	.....	710-475.....	.....	.....
1258 4002-045	..	Bolt, 1/4 roller brtt l.t.....	8	PC	.....	.18	stl	.....	710-475.....	.....	.....
1258 4002-046	..	Bolt, 1/4 roller brtt l.t.....	8	PC	.....	.18	tl44	.....	710-475.....	.....	.....
1258 4002-047	..	Bolt, 1/4 roller guide l.t.....	20	PC	.....	.04	tl44	.....	710-475.....	.....	.....
1258 4002-048	..	Bolt, 1/4 tie-bar l.t.....	8	PC	.....	.04	tl44	.....	710-475.....	.....	.....
1258 4002-049	..	Bolt, 1/4 roller guide l.t.....	16	PC	.....	.12	tl44	.....	710-475.....	.....	.....
1258 4002-050	..	Bolt, 1/4 hinge l.t.....	16	PC	.....	.16	tl44	.....	710-475.....	.....	.....
1258 4002-051	..	Bolt, 1/4 stiffener bar l.t.....	12	PC	.....	.08	tl44	.....	710-475.....	.....	.....
1258 4002-052	..	Bolt, leadtray.....	8	PC	.....	.12	tl44	.....	710-475.....	.....	.....
1258 4002-053	..	Bolt, leadtray.....	8	PC	.....	.12	tl44	.....	710-475.....	.....	.....
1258 4002-054	..	Bolt, leadtray.....	8	PC	.....	.14	tl44	.....	710-475.....	.....	.....
1258 4002-055	..	Bolt, leadtray.....	2	PC	.....	.04	tl44	.....	710-475.....	.....	.....
1258 4002-056	..	Bolt, leadtray.....	2	PC	.....	.04	tl44	.....	710-475.....	.....	.....
1258 4002-057	..	Bolt, leadtray.....	3	PC	.....	.02	tl44	.....	710-475.....	.....	.....
1258 4002-058	..	Bolt, leadtray.....	2	PC	.....	.02	tl44	.....	710-475.....	.....	.....
1258 4002-059	..	Bolt, leadtray.....	4	PC	.....	.05	tl44	.....	710-475.....	.....	.....
1258 4002-060	..	Bolt, leadtray.....	40	PC	.....	.31	tl44	.....	710-475.....	.....	.....
1258 4002-061	..	Bolt, leadtray.....	40	PC	.....	.35	tl44	.....	710-475.....	.....	.....
1258 4002-062	..	Bolt, leadtray.....	12	PC	.....	.16	stl	.....	710-475.....	.....	.....
1258 4002-063	..	Bolt, leadtray.....	8	PC	.....	.10	tl44	.....	710-475.....	.....	.....
1258 4002-064	..	Bolt, leadtray.....	16	PC	.....	.13	tl44	.....	710-475.....	.....	.....
1258 4002-065	..	Bolt, leadtray.....	4	PC	.....	.05	tl44	.....	710-475.....	.....	.....
1258 4002-066	..	Bolt, leadtray.....	4	PC	.....	.09	stl	.....	710-475.....	.....	.....
1258 4002-067	..	Bolt, leadtray.....	8	PC	.....	.12	stl	.....	710-475.....	.....	.....
1258 4002-068	..	Bolt, 3/8 frt lifting lug.....	8	PC	.....	1.00	stl	.....	710-475.....	.....	.....
1258 4002-069	..	Bolt, frt rail locks.....	8	PC	.....	1.00	stl	.....	710-240.....	.....	.....
1258 4002-070	..	Bolt, lower fan pin.....	1	PC	.....	1.26	stl	.....	710-240.....	.....	.....
1258 4002-071	..	Bolt, lower fan pin.....	4	PC	.....	.25	stl	.....	710-240.....	.....	.....
1258 4002-072	..	Bolt, lower fan pin.....	4	PC	.....	1.39	stl	.....	710-240.....	.....	.....
1258 4002-073	..	Bolt, lower fan pin.....	4	PC	.....	.....	stl	.....	710-240.....	.....	.....
1258 4002-074	..	Bolt, upper fan pin.....	4	PC	.....	.11	stl	.....	710-240.....	.....	.....
1258 4002-075	..	Bolt, upper fan pin.....	4	PC	.....	.19	stl	.....	710-240.....	.....	.....
1258 4002-076	..	Bolt, upper fan pin.....	3	PC	.....	.11	stl	.....	710-240.....	.....	.....

Part Number	Size	Description	Qty	UN	Wt/LB	Weight	Mail	Supplier	Called out at	Rebuild	Rebuild
1258 4002-077	..	Bolt,.....upper fan pin.....	..2	pc	.....	..04 stl.	.....	.....	5710-240	.....	.....
1258 4002-078	..	Bolt, 3/8 equiv atq tube.....	..4	pc	.....	5.80 stl.	.....	.....	5710-340	.....	.....
1258 4002-079	..	Bolt, 3/8 elev cyl at, cradle.....	..4	pc	.....	..27 stl.	.....	.....	5710-340	.....	.....
1258 4002-080	..	Bolt, 1/2 lwr atq pin, ass.....	..1	pc	.....	..28 stl.	.....	.....	5710-240	.....	.....
1258 4002-081	..	Bolt, 1/2 upper atq pin, ass.....	..1	pc	.....	..14 stl.	.....	.....	5710-240	.....	.....
1258 4002-082	..	Bolt,.....cannoneers ear/crad.....	..6	pc	.....	..28 stl.	.....	.....	.....	.....	.....
1258 4002-083	..	Bolt,.....rear band trv sppt.....	..4	pc	.....	..20 stl.	.....	.....	.....	.....	.....
1258 4002-084	..	Bolt,.....straps, puct-trail.....	..10	pc	.....	..44 stl.	.....	.....	.....	.....	.....
1258 4002-085	..	Bolt,.....straps, puct-trail.....	..8	pc	.....	..36 stl.	.....	.....	.....	.....	.....
1258 4002-086	..	Bolt, 1/4 speedshift.....	..6	pc	.....	..18 stl.	.....	.....	5710-575	.....	.....
1258 4002-087	..	Bolt, 1/2 speedshift.....	..5	pc	.....	..68 stl.	.....	.....	5710-575	.....	.....
1258 4002-088	..	Bolt, 3/8 speedshift.....	..1	pc	.....	..10 stl.	.....	.....	5710-575	.....	.....
1258 4002-089	..	Bolt, 1/4 speedshift.....	..4	pc	.....	..07 stl.	.....	.....	5710-575	.....	.....
1258 4002-090	..	Bolt, 1/4 speedshift.....	..8	pc	.....	..19 stl.	.....	.....	5710-575	.....	.....
1258 4002-091	..	Bolt, 3/8 lower meant.....	..4	pc	.....	..25 stl.	.....	.....	.....	.....	.....
1258 4002-092	..	Bolt,.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4002-093	..	Bolt,.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4002-094	..	Bolt,.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4002-095	..	Bolt,.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4002-096	..	Bolt,.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4003.....	..	Muta.....	..	pc	.....	.....	.....	.....	.....	.....	.....
1258 4003-001	..	Mut, 3/8 pivot.....	..4	pc	.....02	..08 cast	.....	.....	5710-675	.....	.....
1258 4003-002	..	Mut, 5/16 brake rod end.....	..4	pc	.....	..05 cast	.....	.....	5710-650	.....	.....
1258 4003-003	..	Mut,.....track sppt l.t.....	..6	pc	.....	.....	4286	.....	5710-475	.....	.....
1258 4003-004	..	Mut, 3/8 fwd trail.....	..4	pc	.....	..04 cast	.....	.....	.....	.....	.....
1258 4003-005	..	Mut, 5/16 handle brkt, a-spt.....	..2	pc	.....	..01 cast	.....	.....	.....	.....	.....
1258 4003-006	..	Mut, 1/4 trail brg.....	..16	pc	.....	..08 cast	.....	.....	.....	.....	.....
1258 4003-007	..	Mut, 1/4 bulkhead.....	..16	pc	.....	..25 cast	.....	.....	.....	.....	.....
1258 4003-008	..	Mut, 1/2 ground pad.....	..14	pc	.....	..14 cast	.....	.....	.....	.....	.....
1258 4003-009	..	Mut, 1/2 collar.....	..20	pc	.....14	..120 cast	.....	.....	.....	.....	.....
1258 4003-010	..	Mut, 1/4 lock plate, fwd plate.....	..2	pc	.....	..02 cast	.....	.....	.....	.....	.....
1258 4003-011	..	Mut, 1/4 leadray.....	..48	pc	.....	..24 cast	.....	.....	5710-475	.....	.....
1258 4003-012	..	Mut, 3/4 leadray.....	..1	pc	.....01	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-013	..	Mut, 1/2 leadray.....	..4	pc	.....01	..04 cast	.....	.....	5710-475	.....	.....
1258 4003-014	..	Mut, 1/4 leadray.....	..4	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-015	..	Mut, 1/4 leadray.....	..4	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-016	..	Mut, 3/8 leadray.....	..8	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-017	..	Mut,.....leadray.....	..16	pc	.....	..06 cast	.....	.....	5710-475	.....	.....
1258 4003-018	..	Mut, 1/2 pad spacer.....	..20	pc	.....01	..20 cast	.....	.....	.....	.....	.....
1258 4003-019	..	Mut, 3/8 spc-locking plt/trl.....	..4	pc	.....	..40 cast	.....	.....	.....	.....	.....
1258 4003-020	..	Mut,.....afi floating plate.....	..2	pc	.....	..20 cast	.....	.....	.....	.....	.....
1258 4003-021	..	Mut, 1/4 has end, brake.....	..2	pc	.....01	..02 cast	.....	.....	.....	.....	.....
1258 4003-022	..	Mut, 3/8 brake pin.....	..4	pc	.....01	..04 cast	.....	.....	5710-475	.....	.....
1258 4003-023	..	Mut,.....leadray.....	..12	pc	.....	..05 cast	.....	.....	5710-475	.....	.....
1258 4003-024	..	Mut,.....leadray.....	..8	pc	.....	..03 cast	.....	.....	5710-475	.....	.....
1258 4003-025	..	Mut,.....leadray.....	..4	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-026	..	Mut,.....leadray.....	..16	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-027	..	Mut,.....track sppt l.t.....	..2	pc	.....	..01 4286	.....	.....	5710-475	.....	.....
1258 4003-028	..	Mut,.....roller brkt l.t.....	..8	pc	.....	..03 cast	.....	.....	5710-475	.....	.....
1258 4003-029	..	Mut,.....roller guide l.t.....	..8	pc	.....	..05 cast	.....	.....	5710-475	.....	.....
1258 4003-030	..	Mut,.....tie-bar l.t.....	..8	pc	.....	..07 4286	.....	.....	5710-475	.....	.....
1258 4003-031	..	Mut,.....roller guide l.t.....	..16	pc	.....	..03 4286	.....	.....	5710-475	.....	.....
1258 4003-032	..	Mut,.....stiffener bar l.t.....	..12	pc	.....	..12 4286	.....	.....	5710-475	.....	.....
1258 4003-033	..	Mut,.....leadray.....	..8	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-034	..	Mut,.....leadray.....	..16	pc	.....	..04 cast	.....	.....	5710-475	.....	.....
1258 4003-035	..	Mut,.....leadray.....	..8	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-036	..	Mut,.....leadray.....	..8	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-037	..	Mut,.....leadray.....	..2	pc	.....	..01 cast	.....	.....	5710-475	.....	.....
1258 4003-038	..	Mut,.....leadray.....	..2	pc	.....	..01 cast	.....	.....	5710-475	.....	.....

Part Number	Sz	Description	Qty	UN	WT/UN	Weight	Matl	Supplier	Called out at:	Rephilly 1	Rephilly 2
1258 6003-039	..	Nut, ....loadtray.....	..3	pc	..	..01	crs	..	5710-475	..	..
1258 6003-040	..	Nut, ....loadtray.....	..8	pc	..	..01	crs	..	5710-475	..	..
1258 6003-041	..	Nut, ....loadtray.....	..80	pc	..	..40	crs	..	5710-475	..	..
1258 6003-042	..	Nut, ....loadtray.....	..2	pc	..	..24	crs	..	5710-475	..	..
1258 6003-043	..	Nut, ....loadtray.....	..32	pc	..	..06	crs	..	5710-475	..	..
1258 6003-044	..	Nut, 3/8 wheel.....	..32	pc	..	..1.00	stl	..	5710-475	..	..
1258 6003-045	..	Nut, 1/4 lower pin, fan.....	..4	pc	..	..03	stl	..	5710-260	..	..
1258 6003-046	..	Nut, 1/4 upper pin, fan.....	..4	pc	..	..03	stl	..	5710-260	..	..
1258 6003-047	..	Nut, 3/4 equil atg tube.....	..2	pc	..	..25	stl	..	5710-340	..	..
1258 6003-048	..	Nut, 3/8 elev cyl at cradle.....	..6	pc	..	..16	stl	..	5710-260	..	..
1258 6003-049	..	Nut, 1/4 ass atg pins.....	..20	pc	..	..16	stl	..	5710-260	..	..
1258 6003-050	..	Nut, ....trail hold dm steps.....	..18	pc	..	..30	stl	..	5710-475	..	..
1258 6003-051	..	Nut, 3/8 speedshift.....	..4	pc	..	..07	stl	..	5710-575	..	..
1258 6003-052	..	Nut, 1/4 speedshift.....	..14	pc	..	..11	stl	..	5710-575	..	..
1258 6003-053	..	Nut, 1/2 speedshift.....	..5	pc	..	..20	stl	..	5710-575	..	..
1258 6003-054	..	Nut, 1/2 trem.mbr. slt.ckst.....	..6	pc	..	..30	stl	..	5710-575	..	..
1258 6003-055	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-056	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-057	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-058	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-059	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-060	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6003-061	..	Nut, .....	..	..	..	..	..	..	..	..	..
1258 6004-...	..	Studs, .....	..	..	..	..	..	..	..	..	..
1258 6004-001	..	Studs, 3/4, equilb swivel.....	..1	pc	..	..	..	..	..	..	..
1258 6004-002	..	Studs, 3/8, equilb at cleaps.....	..6	pc	..	..	..	..	..	..	..
1258 6004-003	..	Studs, 3/8, ind trail.....	..2	pc	..20	..	..	..	..	..	..
1258 6005-...	..	Washers, .....	..	..	..	..	..	..	..	..	..
1258 6005-001	..	Washer, ....travel lock.....	..2	pc	..	..	..	..	..	..	..
1258 6005-002	..	Washer, 2.25 pivot pin.....	..8	pc	..04	..32	du..	..	5710-475	..	..
1258 6005-003	..	Washer, .....	..	..	..	..	..	..	..	..	..
1258 6005-004	..	Washer, 5/8 axle cap.....	..16	pc	..	..25	catl	..	5710-625	..	..
1258 6005-005	..	Washer, 5/8 wheel bolt.....	..32	pc	..	..5	catl	..	5710-625	..	..
1258 6005-006	..	Washer, 1.0 cyl pivot.....	..8	pc	..	..05	du..	..	5710-450	..	..
1258 6005-007	..	Washer, 1.0 glabal brg.....	..1	pc	..	..16	catl	..	..	..	..
1258 6005-008	..	Washer, 3/4 glabal brg.....	..1	pc	..	..1	catl	..	..	..	..
1258 6005-009	..	Washer, 4 1/2 glabal brg.....	..1	pc	..	..35	du..	..	..	..	..
1258 6005-010	..	Washer, 2.0 pin, trail brg.....	..4	pc	..	..20	alsc	..	..	..	..
1258 6005-011	..	Washer, 3/8 elevation.....	..2	pc	..	..01	du..	..	..	..	..
1258 6005-012	..	Washer, ....lifting handle.....	..4	pc	..	..04	stl	..	..	..	..
1258 6005-013	..	Washer, 1/4 loadtray.....	..4	pc	..	..04	catl	..	5710-475	..	..
1258 6005-014	..	Washer, 1/4 flat, loadtray.....	..16	pc	..	..04	catl	..	5710-475	..	..
1258 6005-015	..	Washer, ... flat, loadtray.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-016	..	Washer, ....loadtray.....	..48	pc	..	..08	catl	..	5710-475	..	..
1258 6005-017	..	Washer, ....flat, loadtray.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-018	..	Washer, ....loadtray.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-019	..	Washer, ....pin handle.....	..4	pc	..	..04	catl	..	..	..	..
1258 6005-020	..	Washer, ....loadtray.....	..4	pc	..	..04	catl	..	5710-475	..	..
1258 6005-021	..	Washer, ....loadtray.....	..32	pc	..	..02	crs	..	5710-475	..	..
1258 6005-022	..	Washer, ....loadtray.....	..16	pc	..	..01	catl	..	5710-475	..	..
1258 6005-023	..	Washer, ....loadtray.....	..4	pc	..	..01	catl	..	5710-475	..	..
1258 6005-024	..	Washer, ....loadtray.....	..4	pc	..	..01	catl	..	5710-475	..	..
1258 6005-025	..	Washer, ....loadtray.....	..8	pc	..	..01	a286	..	5710-475	..	..
1258 6005-026	..	Washer, ....track appt l.t.....	..6	pc	..	..01	a286	..	5710-475	..	..
1258 6005-027	..	Washer, ....track appt l.t.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-028	..	Washer, ....roller brkt l.t.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-029	..	Washer, ....roller stud l.t.....	..8	pc	..	..01	catl	..	5710-475	..	..
1258 6005-030	..	Washer, ....roller guide l.t.....	..20	pc	..	..05	a286	..	5710-475	..	..
1258 6005-031	..	Washer, ....tie-bar l.t.....	..8	pc	..	..01	a286	..	5710-475	..	..

Part Number	Sz	Description	Qty	UN	Mt/UM	Weight	Matl	Supplier	Called out ats	Responsibility 1	Responsibility 2
1258 4005-032	..	Washer, roller guide l.t	.16	pc	.....	.04	a286	.....	5710-475	.....	.....
1258 4005-033	..	Washer, hinge l.t	.12	pc	.....	.02	a286	.....	5710-475	.....	.....
1258 4005-034	..	Washer, stiffener bar	.12	pc	.....	.01	a286	.....	5710-475	.....	.....
1258 4005-035	..	Washer, roller stud	.08	pc	.....	.01	cast	.....	5710-475	.....	.....
1258 4005-036	..	Washer, leadray	.04	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-037	..	Washer, leadray	.16	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-038	..	Washer, leadray	.04	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-039	..	Washer, leadray	.16	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-040	..	Washer, leadray	.16	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-041	..	Washer, leadray	.16	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-042	..	Washer, leadray	.04	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-043	..	Washer, leadray	.04	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-044	..	Washer, leadray	.04	pc	.....	.04	stl	.....	5710-475	.....	.....
1258 4005-045	..	Washer, leadray	.16	pc	.....	.09	stl	.....	5710-475	.....	.....
1258 4005-046	..	Washer, leadray	.04	pc	.....	.03	stl	.....	5710-475	.....	.....
1258 4005-047	..	Washer, leadray	.04	pc	.....	.07	coop	.....	5710-475	.....	.....
1258 4005-048	..	Washer, leadray	.04	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-049	..	Washer, leadray	.02	pc	.....	.01	coop	.....	5710-475	.....	.....
1258 4005-050	..	Washer, leadray	.20	pc	.....	.01	stl	.....	5710-475	.....	.....
1258 4005-051	..	Washer, 1.0 lower fan pin	.1	pc	.....	.07	stl	.....	5710-260	.....	.....
1258 4005-052	..	Washer, 3/8 lower fan pin	.04	pc	.....	.03	stl	.....	5710-260	.....	.....
1258 4005-053	..	Washer, 5/8 lower fan pin	.04	pc	.....	.08	stl	.....	5710-260	.....	.....
1258 4005-054	..	Washer, 1/4 lower fan pin	.04	pc	.....	.02	stl	.....	5710-260	.....	.....
1258 4005-055	..	Washer, 5/16 upper fan pin	.04	pc	.....	.05	stl	.....	5710-260	.....	.....
1258 4005-056	..	Washer, 3/8 upper fan pin	.04	pc	.....	.03	stl	.....	5710-260	.....	.....
1258 4005-057	..	Washer, 1/4 upper fan pin	.04	pc	.....	.03	stl	.....	5710-340	.....	.....
1258 4005-058	..	Washer, 3/8 elev cyl at	.04	pc	.....	.04	stl	.....	5710-260	.....	.....
1258 4005-059	..	Washer, 1/2 atg pins, ass	.02	pc	.....	.04	stl	.....	5710-260	.....	.....
1258 4005-060	..	Washer, cannoneers manifold	.04	pc	.....	.04	stl	.....	5710-260	.....	.....
1258 4005-061	..	Washer, travel appt, band	.04	pc	.....	.04	stl	.....	5710-260	.....	.....
1258 4005-062	..	Washer, 3/8 speedshift	.04	pc	.....	.04	stl	.....	5710-260	.....	.....
1258 4005-063	..	Washer, 1/4 speedshift	.04	pc	.....	.12	stl	.....	5710-575	.....	.....
1258 4005-064	..	Washer, 1/2 speedshift	.10	pc	.....	.18	stl	.....	5710-575	.....	.....
1258 4005-065	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-066	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-067	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-068	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-069	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-070	..	Washer, .....	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-071	..	Bearings and Bushings	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-072	..	Bushing, pivot pin	.08	pc	.....	1.9	coop	.....	5710-475	.....	.....
1258 4005-073	..	Bushing, hayes brake	.16	pc	.....	.02	coop	.....	5710-425	.....	.....
1258 4005-074	..	Bushing, cyl pivot, wheels	.12	pc	.....	.1	coop	.....	5710-450	.....	.....
1258 4005-075	..	Bushing, appt pivot	.04	pc	.....	.5	coop	.....	5710-450	.....	.....
1258 4005-076	..	Bushing, brg blk-p brake	.04	pc	.....	.04	coop	.....	.....	.....	.....
1258 4005-077	..	Bushing, trail	..	..	.....	..	..	.....	.....	.....	.....
1258 4005-078	..	Bearing, equilibration	.02	pc	.....	4.0	cast	.....	.....	.....	.....
1258 4005-079	..	Bearing, trunnion	.02	pc	.....	4.0	cast	.....	.....	.....	.....
1258 4005-080	..	Bearing, sphr glabal, lower	.01	pc	.....	6.9	cast	.....	.....	.....	.....
1258 4005-081	..	Bearing, sphr glabal, upper	.01	pc	.....	2.9	cast	.....	.....	.....	.....
1258 4005-082	..	Bushing, trail brg, thrust	.04	pc	.....	.14	cast	.....	.....	.....	.....
1258 4005-083	..	Bearing, trail	.04	pc	.....	2.08	cast	.....	.....	.....	.....
1258 4005-084	..	Bearing, elevation, attach	.01	pc	.....	.3	cast	.....	.....	.....	.....
1258 4005-085	..	Bearing, leadray	.02	pc	.....	.02	cast	.....	5710-475	.....	.....
1258 4005-086	..	Bearing, leadray	.02	pc	.....	.01	cast	.....	5710-475	.....	.....
1258 4005-087	..	Bushing, trail to manifold	.08	pc	.....	.4	coop	.....	.....	.....	.....
1258 4005-088	..	Bushing, trav actuator	.01	pc	.....	2.9	cast	.....	.....	.....	.....
1258 4005-089	..	Bushing, leadray	.04	pc	.....	.02	coop	.....	5710-475	.....	.....

Part Number	Sz	Description	Qty	UN	Wt/UN	Weight	Matl	Supplier	Called out at:	Responsibility 1	Responsibility 2
1258 6006-020	..	Bushing, loadtray.....	..4	pc	..	..02 comp	..	..	5710-475.....	..	..
1258 6006-021	..	Bushing, hinge pin.....	..4	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-022	..	Bushing, bolt, 1.1.....	..8	pc	..	..	..	..	..	..	..
1258 6006-023	..	Bearing, fire control.....	..2	pc	..	1.46 stl.	Kaydon..	..	..	..	..
1258 6006-024	..	Bearing, f.c. actuator RH.....	..1	pc	..	..13 stl.	..	..	..	..	..
1258 6006-025	..	Bearing, f.c. actuator LH.....	..1	pc	..	..13 stl.	..	..	..	..	..
1258 6006-026	..	Bushing, loadtray.....	..4	pc	..	..04 comp	..	..	5710-475.....	..	..
1258 6006-027	..	Bushing, loadtray.....	..2	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-028	..	Bushing, loadtray.....	..1	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-029	..	Bushing, loadtray.....	..8	pc	..	..02 comp	..	..	5710-475.....	..	..
1258 6006-030	..	Bushing, loadtray.....	..2	pc	..	..03 comp	..	..	5710-475.....	..	..
1258 6006-031	..	Bushing, loadtray.....	..8	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-032	..	Bushing, loadtray.....	..4	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-033	..	Bushing, loadtray.....	..4	pc	..	..01 comp	..	..	5710-475.....	..	..
1258 6006-034	..	Bushing, lower fan pin.....	..1	pc	..	..27 nyl.	..	..	5710-240.....	..	..
1258 6006-035	..	Bushing, 1/2 speedshift.....	..6	pc	..	..01 comp	..	..	5710-575.....	..	..
1258 6006-036	..	Bushing, speedshift disk piv.....	..1	pc	..	..80 stl.	..	..	5710-575.....	..	..
1258 6006-037	..	Bushing, speedshift.....	..2	pc	..	..42 comp	..	..	5710-575.....	..	..
1258 6006-038	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6006-039	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-001	..	Pin, 1/4 rotor disc.....	..4	pc	..	..01 catl	..	..	5710-625.....	..	..
1258 6007-002	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-003	..	Pin, 2.0 equilibration.....	..2	pc	..	4.0 catl	..	..	..	..	..
1258 6007-004	..	Pin, 2.0 trunnion.....	..2	pc	..	3.8 catl	..	..	..	..	..
1258 6007-005	..	Pin, 1 3/8 traverse cyl.....	..1	pc	..	2.0 catl	..	..	..	..	..
1258 6007-006	..	Pin, 3.0 global/traverse.....	..1	pc	..	15.8 catl	..	..	..	..	..
1258 6007-007	..	Pin, 2.0 global/traverse.....	..1	pc	..	9.5 catl	..	..	..	..	..
1258 6007-008	..	Pin, 3/4 elevation attach.....	..1	pc	..	..05 catl	..	..	..	..	..
1258 6007-009	..	Pin, comp act and cap.....	..4	pc	..	..	..	..	..	..	..
1258 6007-010	..	Pin, front travel lock.....	..2	pc	..	..	..	..	..	..	..
1258 6007-011	..	Pin, loadtray hinge.....	..4	pc	..	..	..	..	5710-475.....	..	..
1258 6007-012	..	Pin, cross support lock.....	..	pc	..	..	..	..	5710-650.....	..	..
1258 6007-013	..	Pin, hair, speedshift.....	..6	pc	..	..01 stl.	..	..	5710-575.....	..	..
1258 6007-014	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-015	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-016	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-017	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-018	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6007-019	..	Pin.....	..	pc	..	..	..	..	..	..	..
1258 6008-001	..	Clamp, brake tubing 3/16.....	..ar	..	..	..3 catl	..	..	5710-225.....	..	..
1258 6008-002	..	Clamp, brake tubing 1/4.....	..ar	..	..	..1 catl	..	..	..	..	..
1258 6008-003	..	Clamp.....	..	..	..	..	..	..	..	..	..
1258 6009-001	..	Screw, brake clamps.....	..ar	..	..	..2 catl	..	..	5710-225.....	..	..
1258 6009-002	..	Screw, 1/2 pin, trail, arg.....	..4	pc	..	..24 alnc	..	..	..	..	..
1258 6009-003	..	Screw, 1/4 loadtray.....	..4	pc	..	..11 catl	..	..	5710-475.....	..	..
1258 6009-004	..	Screw, 1/4 loadtray.....	..34	pc	..	..50 catl	..	..	5710-475.....	..	..
1258 6009-005	..	Screw, 1/4 lower pin, FSH.....	..4	pc	..	..08 catl	..	..	5710-260.....	..	..
1258 6009-006	..	Screw, 1/4 upper pin, fas.....	..4	pc	..	..08 catl	..	..	5710-260.....	..	..
1258 6009-007	..	Screw, 1/4 pin atg, ass.....	..20	pc	..	..19 stl.	..	..	5710-240.....	..	..
1258 6009-008	..	Screw.....	..	..	..	..	..	..	..	..	..
1258 6009-009	..	Screw.....	..	..	..	..	..	..	..	..	..
1258 6009-010	..	Screw.....	..	..	..	..	..	..	..	..	..
1258 6009-011	..	Screw.....	..	..	..	..	..	..	..	..	..
1258 6010-001	..	Snap rings.....	..	..	..	..	..	..	..	..	..
1258 6010-002	..	Snap ring, 4.5 global bearing	..1	pc	..	..02 catl	..	..	..	..	..
1258 6010-003	..	Snap ring, 5.0 global bearing	..1	pc	..	..02 catl	..	..	..	..	..

Part Number	Size	Description	Qty	UN	Wt/UN	Weight	Matl	Supplier	Called out at:	Republty 1	Republty 2
1258 6010-003	..	Snap ring, 3.5 gibal bearing	.. 1	pc	.....	..01 catl	.....	.....	5710-475	.....	.....
1258 6010-004	..	Snap ring, loadtray.....	.. 2	pc	.....	..01 catl	.....	.....	.....	.....	.....
1258 6010-005	..	Snap ring, ball bearing.....	.. 4	pc	.....	..04 catl	.....	.....	.....	.....	.....
1258 6010-006	..	Snap ring, 1.5 pit/crl.....	.. 2	pc	.....	..02 cras	.....	.....	.....	.....	.....
1258 6010-007	..	Snap ring, 2.5 gibal bearing	.. 1	pc	.....	..01 catl	.....	.....	.....	.....	.....
1258 6010-008	..	Snap ring, 1.0 trail.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-009	..	Snap ring, 1.25 trail.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-010	..	Snap ring, 1.00 whl lock pins	.. 8	pc	.....	catl	.....	.....	5710-340	.....	.....
1258 6010-011	..	Snap ring, 1.00 slw cyl.....	.. 4	pc	.....	..02 catl	.....	.....	.....	.....	.....
1258 6010-012	..	Snap ring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-013	..	Snap ring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-014	..	Snap ring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-015	..	Snap ring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6010-016	..	Snap ring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6011.....	..	Spacer cylinders.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6011-001	..	Spacer cylinder, fwd trail.....	.. 2	pc	.....	..02 plas	.....	.....	.....	.....	.....
1258 6011-002	..	Spacer cylinder.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6012.....	..	Pull pins.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6012-001	..	Pull pin, fwd trail.....	.. 2	pc	.....	..04 catl	.....	.....	.....	.....	.....
1258 6012-002	..	Pull pin.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6012-003	..	Pull pin.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6012-004	..	Pull pin.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6013.....	..	Spring, compression.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6013-001	..	Spring, platform/trail.....	.. 2	pc	.....	1.0 cras	.....	.....	.....	.....	.....
1258 6013-002	..	Spring, a-sppt handle.....	.. 2	pc	..05	..3 cras	.....	.....	.....	.....	.....
1258 6013-003	..	Spring.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6014.....	..	Fabrics and shies.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6015.....	..	Titanium structural shapes.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6015-001
1258 6015-002
1258 6015-003
1258 6015-004
1258 6015-005
1258 6015-006
1258 6015-007
1258 6015-008
1258 6015-009
1258 6015-010
1258 6015-011
1258 6015-012
1258 6016.....	..	Al/SIC extrusions.....	..	..	.....	.....	.....	.....	.....	.....	.....
1258 6016-001	..	Extrusion, rail.....	.. 2	pc	154.2	312.4	.....	.....	.....	.....

[illegible]

Part Number	Description	Qty	UN	Wt/UM	Weight	Matl	Supplier	Called out at:	Replay 1	Replay 2
1258 6037-002	Hose assy.....	..								
1258 6037-003	Hose assy.....	..								
1258 6037-004	Hose assy.....	..								
1258 6037-005	Hose assy.....	..								
1258 6037-006	Hose assy.....	..								
1258 6037-007	Hose assy.....	..								
1258 6038....	Tubing, hydraulic.....	..								
1258 6038-001	Tubing.....	..								
1258 6038-002	Tubing.....	..								
1258 6038-003	Tubing.....	..								
1258 6038-004	Tubing.....	..								
1258 6038-005	Tubing.....	..								
1258 6038-006	Tubing.....	..								
1258 6038-007	Tubing.....	..								
1258 6038-008	Tubing.....	..								
1258 6038-009	Tubing.....	..								
1258 6038-010	Tubing.....	..								
1258 6039....	Aluminum sil carb properties	..								
1258 6040....	Safety cable.....	..								
1258 6040-001	Safety cable.....	..	4 pc		.01 stl.					
1258 6040-002	Safety cable.....	..								
1258 6040-003	Safety cable.....	..								
1258 6040-004	Safety cable.....	..								
1258 6040-005	Safety cable.....	..								
1258 6040-006	Safety cable.....	..								
1258 6041....	.....	..						
1258 6042....	.....	..						
1258 6043....	.....	..						
1258 6044....	.....	..						
1258 6045....	.....	..						
1258 6046....	.....	..						
1258 6047....	.....	..						
1258 6048....	.....	..						
1258 6049....	.....	..						
1258 6050....	.....	..						
1258 6051....	.....	..						
1258 6052....	.....	..						
1258 6053....	.....	..						
1258 6054....	.....	..						
1258 6055....	.....	..						
1258 6056....	.....	..						
1258 6057....	.....	..						
1258 6058....	.....	..						
1258 6059....	.....	..						
1258 6060....	Tooling.....	..								
1258 6060-001	Tooling.....	..								
1258 6060-002	Tooling.....	..								
1258 6060-003	Tooling.....	..								
1258 6060-004	Tooling.....	..								
1258 6060-005	Tooling.....	..								
1258 6060-006	Tooling.....	..								
1258 6060-007	Tooling.....	..								
1258 6060-008	Tooling.....	..								
1258 6060-009	Tooling.....	..								
1258 6060-010	Tooling.....	..								
1258 6060-011	Tooling.....	..								
1258 6060-012	Tooling.....	..								
1258 6061....	.....	..						
1258 6062....	.....	..						

Part Number	82
1258 6037-002	..
1258 6037-003	..
1258 6037-004	..
1258 6037-005	..
1258 6037-006	..
1258 6037-007	..
1258 6038-...	..
1258 6038-001	..
1258 6038-002	..
1258 6038-003	..
1258 6038-004	..
1258 6038-005	..
1258 6038-006	..
1258 6038-007	..
1258 6038-008	..
1258 6038-009	..
1258 6038-010	..
1258 6039-...	..
1258 6040-...	..
1258 6040-001	..
1258 6040-002	..
1258 6040-003	..
1258 6040-004	..
1258 6040-005	..
1258 6040-006	..
1258 6041-...	..
1258 6042-...	..
1258 6043-...	..
1258 6044-...	..
1258 6045-...	..
1258 6046-...	..
1258 6047-...	..
1258 6048-...	..
1258 6049-...	..
1258 6050-...	..
1258 6051-...	..
1258 6052-...	..
1258 6053-...	..
1258 6054-...	..
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1258 6056-...	..
1258 6057-...	..
1258 6058-...	..
1258 6059-...	..
1258 6060-...	..
1258 6061-001	..
1258 6060-002	..
1258 6060-003	..
1258 6060-004	..
1258 6060-005	..
1258 6060-006	..
1258 6060-007	..
1258 6060-008	..
1258 6060-009	..
1258 6060-010	..
1258 6060-011	..
1258 6060-012	..
1258 6061-...	..
1258 6062-...	..

Part Number	Sz	Description	Qty	UN	MT/UN	Weight	Matl	Supplier	Called out at:	Reparability 1	Reparability 2
1258 6063
1258 6064
1258 6065
1258 6066
1258 6067
1258 6068
1258 6069
1258 6070
1258 6071	..	APU.....	..	..	..	0	..	..	..	..	..
1258 6072	..	Hoses for APU.....	..	..	..	0	..	..	..	..	..
1258 7000	..	Lifting lugs, fss.....	..	..	..	7.50 alus	..	..	..	..	..
1258 7001	..	Block, rail travel lock.....	..	..	..	5.00 alus	..	..	..	..	..
1258 7002	..	Retainer, lower pin, fss.....	..	..	..	1.23 alus	..	..	..	..	..
1258 7003	..	Retainer, lower pin, fss.....	..	..	..	.88 alus	..	..	..	..	..
1258 7004	..	Retainer, lower pin, fss.....	..	..	..	.43 alus	..	..	..	..	..
1258 7005	..	Wedge, lower fss.....	..	..	..	8.90 alus	..	..	..	..	..
1258 7006	..	Upper atg pin, fss.....	..	..	..	.77 alus	..	..	..	..	..
1258 7007	..	Lower atg pin, fss.....	..	..	..	.70 alus	..	..	..	..	..
1258 7008	..	Pin, upper atg, fss.....	..	..	..	.18 alus	..	..	..	..	..
1258 7009	..	Sleeve, upper, fss.....	..	..	..	.05 nyls	..	..	..	..	..
1258 7010	..	Sleeve, lower, fss.....	..	..	..	.02 nyls	..	..	..	..	..
1258 7011	..	Retainer, upper pin, fss.....	..	..	..	2.30 alus	..	..	..	..	..
1258 7012	..	Retainer, upper pin, fss.....	..	..	..	1.41 t164	..	..	..	..	..
1258 7013	..	Retainer, upper pin, fss.....	..	..	..	.73 t164	..	..	..	..	..
1258 7014	..	Retainer, upper pin, fss.....	..	..	..	1.17 alus	..	..	..	..	..
1258 7015	..	Beas, connecting, equil/gtabl	..	..	..	32.00 cfs	..	..	..	..	..
1258 7016	..	Mount, alav cyl to cradle.....	..	..	..	8.48 t164	..	..	..	..	..
1258 7017	..	Pin, upper atg, fss.....	..	..	..	1.19 alus	..	..	..	..	..
1258 7018	..	Travel sppt, band.....	..	..	..	10.00 t164	..	..	..	..	..
1258 7019	..	Pin, pivot-thrd speedshift.....	..	..	..	.25 ti..	..	..	..	..	..
1258 7020	..	Strap, speedshift peg.....	..	..	..	.72 cfs	..	..	..	..	..
1258 7021	..	Pin, pivot-thrd speedshift.....	..	..	..	.12 ti..	..	..	..	..	..
1258 7022	..	Retainer, bearing-speedshift.....	..	..	..	.41 ti..	..	..	..	..	..
1258 7023	..	Retainer, bushing-speedshift.....	..	..	..	.70 ti..	..	..	..	..	..
1258 7024	..	Mtg pads, old-manifold.....	..	..	..	.80 comp	..	..	..	..	..
1258 7025	..	Shia pack, upper atg pin, fss	..	..	..	.01 alus	..	..	..	..	..
1258 7026
1258 7027
1258 7028
1258 7029
1258 7030
1258 7031
1258 7032
1258 7033
1258 7034
1258 7035
1258 7036
1258 7037
1258 7038
1258	..	MISC WEIGHTS NOT ACCOUNTED FOR ABOVE.....	..	..	..	..	..	..	..	..	..
1258	..	Shipping data plates.....	..	..	..	..	..	..	..	..	..
1258	..	Paint.....	..	..	..	20.0	..	..	..	..	..
1258	..	Basic issue items.....	..	..	..	240.0	..	..	..	..	..
1258	..	Fire control linkage.....	..	..	..	50.0	..	..	..	..	..
1258	..	Fire control items.....	..	..	..	144.0	..	..	..	..	..
1258	..	Cable, pulleys and parts.....	..	..	..	45.0	..	..	..	..	..
1258	..	Cover, equilibration.....	..	..	..	12.0	..	..	..	..	..
1258	..	Hydraulic fluid.....	..	..	..	213.0	..	..	..	..	..

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

SPEC

TITLE

BOOT TORQUE REQUIREMENTS

SEALANTS

SAFETY WIRE

INSTALL FASTENING DEVICES



MS18069

MS33540

1E

BOOK OF STANDARDS REFERENCED

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-1-27		ASSEMBLY REQUIREMENTS, GENERAL	
YP		TOLERANCES ON DECIMALS *		DRAFTSMAN B. ANDERSON		CHECKER	
TS		FRACTIONS *		ENGR		ENGR	
EL2		ANGLES *		ENGR		ENGR	
RA		THIRD ANGLE PROJECTION		ENGR		ENGR	
BH						SIZE	
RH						FSCM NO.	
NEXT ASSY		USED ON		SCALE		UNIT WT.	
APPLICATION				B 19200		T-1250 5710-1351A	
				SHEET		1 OF 1	

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

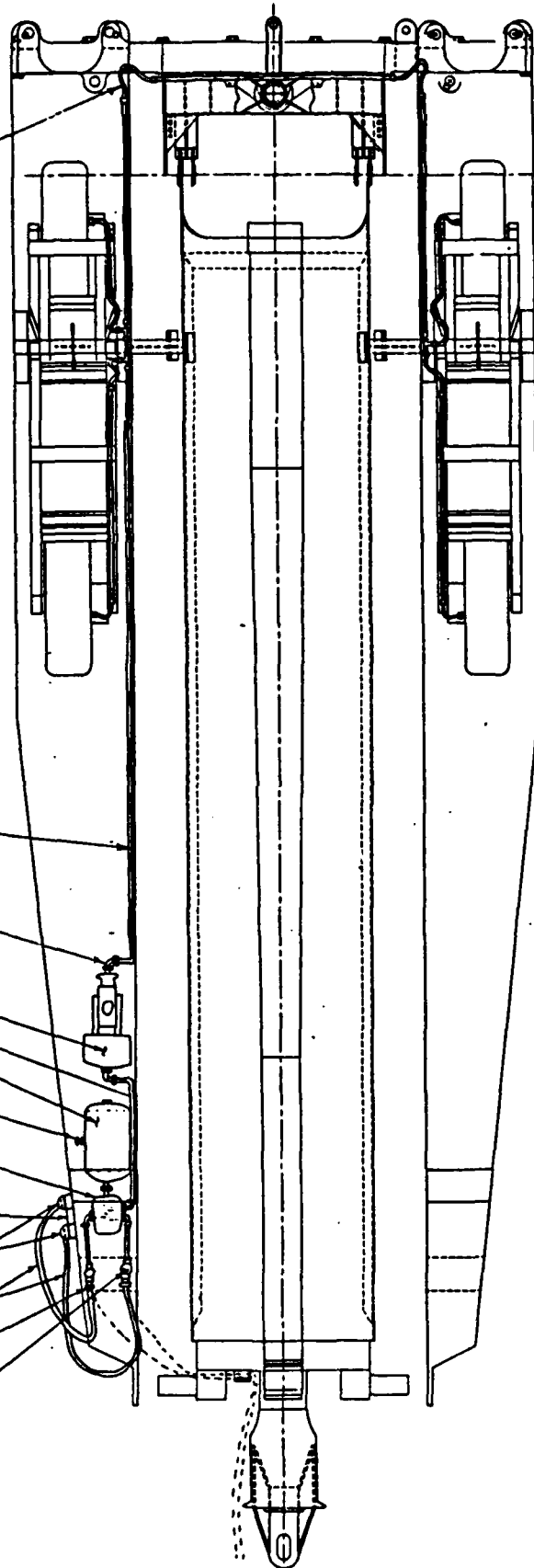
REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

#C035

#C027

#C034

#5759 #5758 #5756 #5755 #5754 #5753 #5752 #5751 #5750

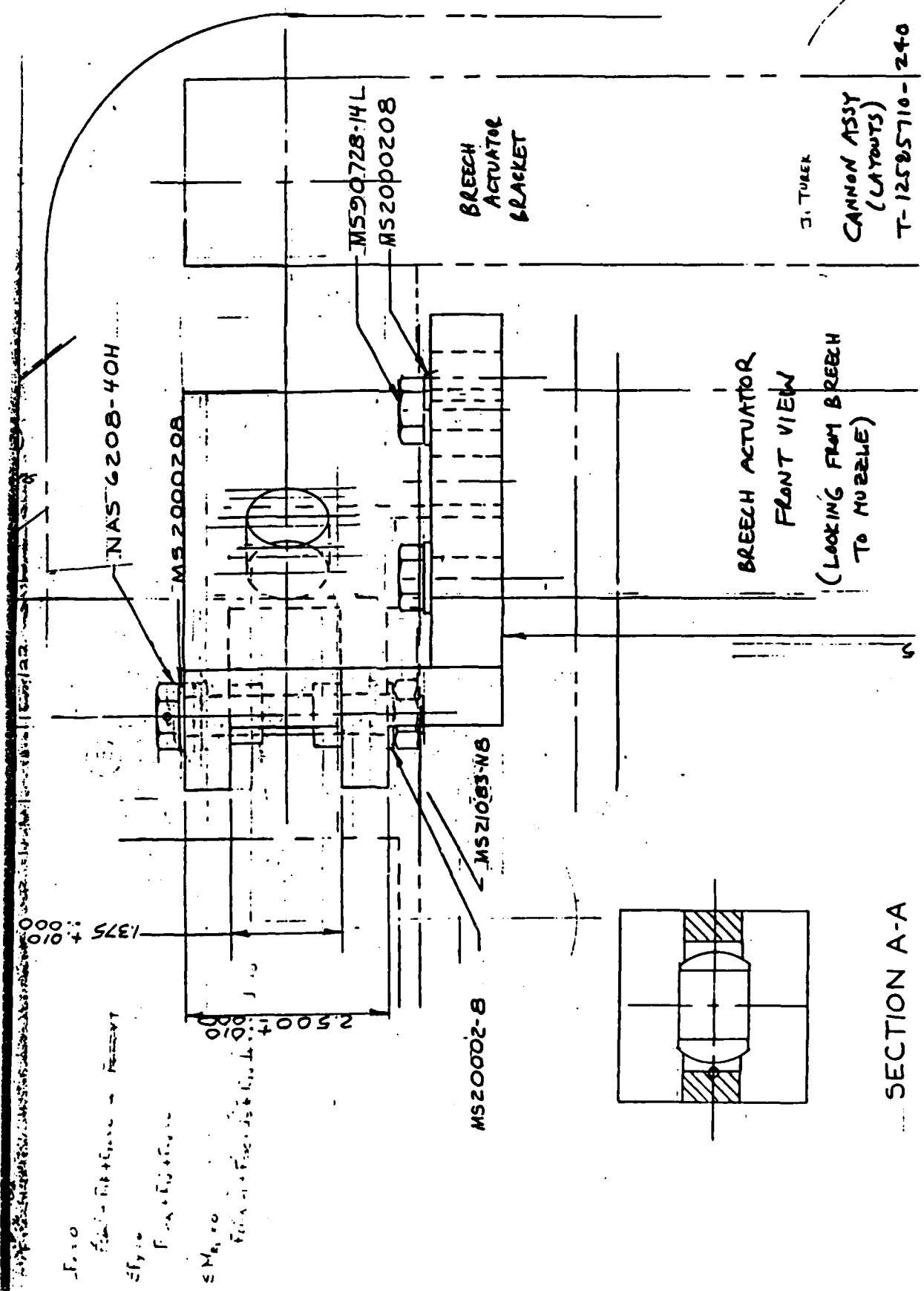


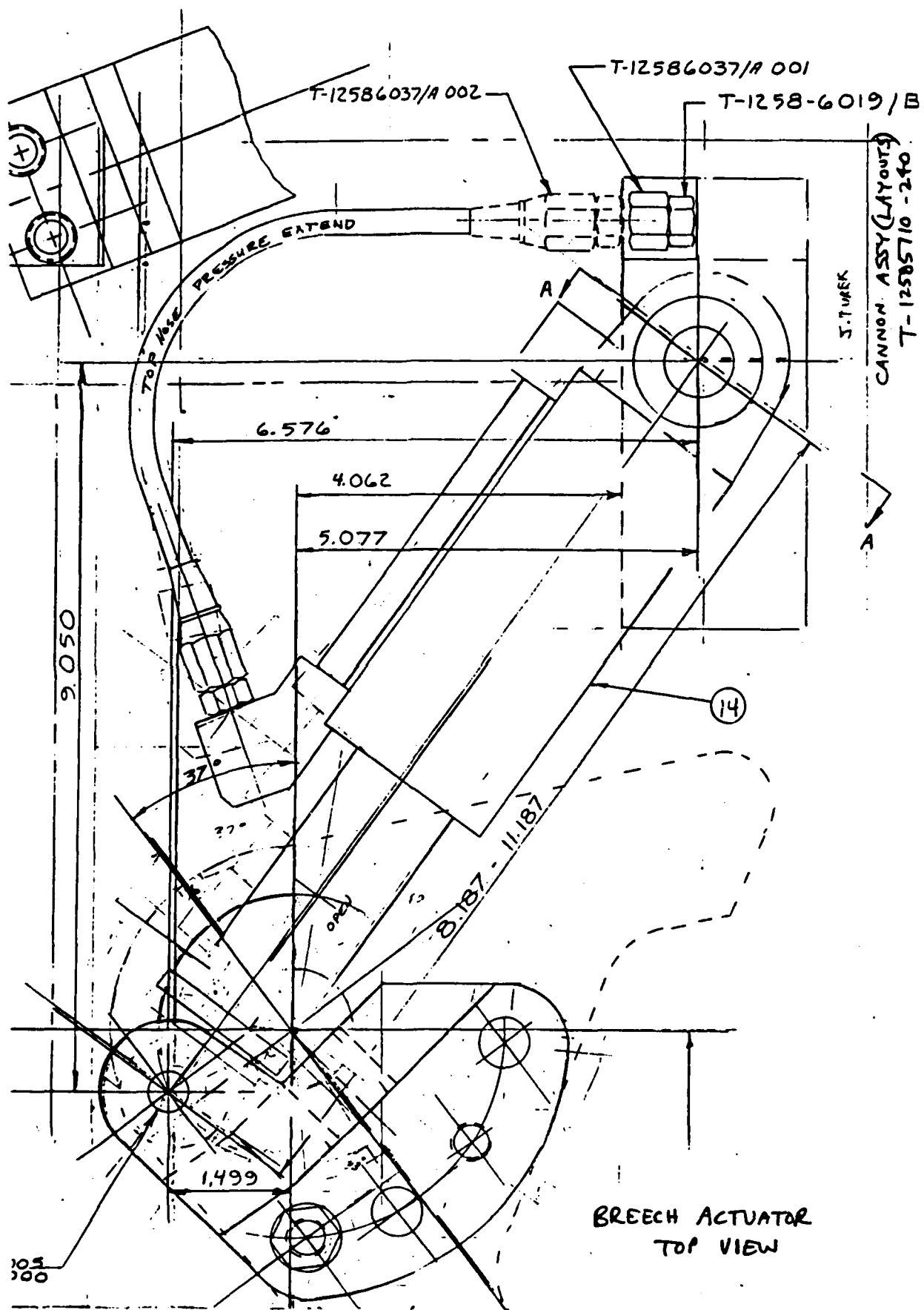
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PART NO.

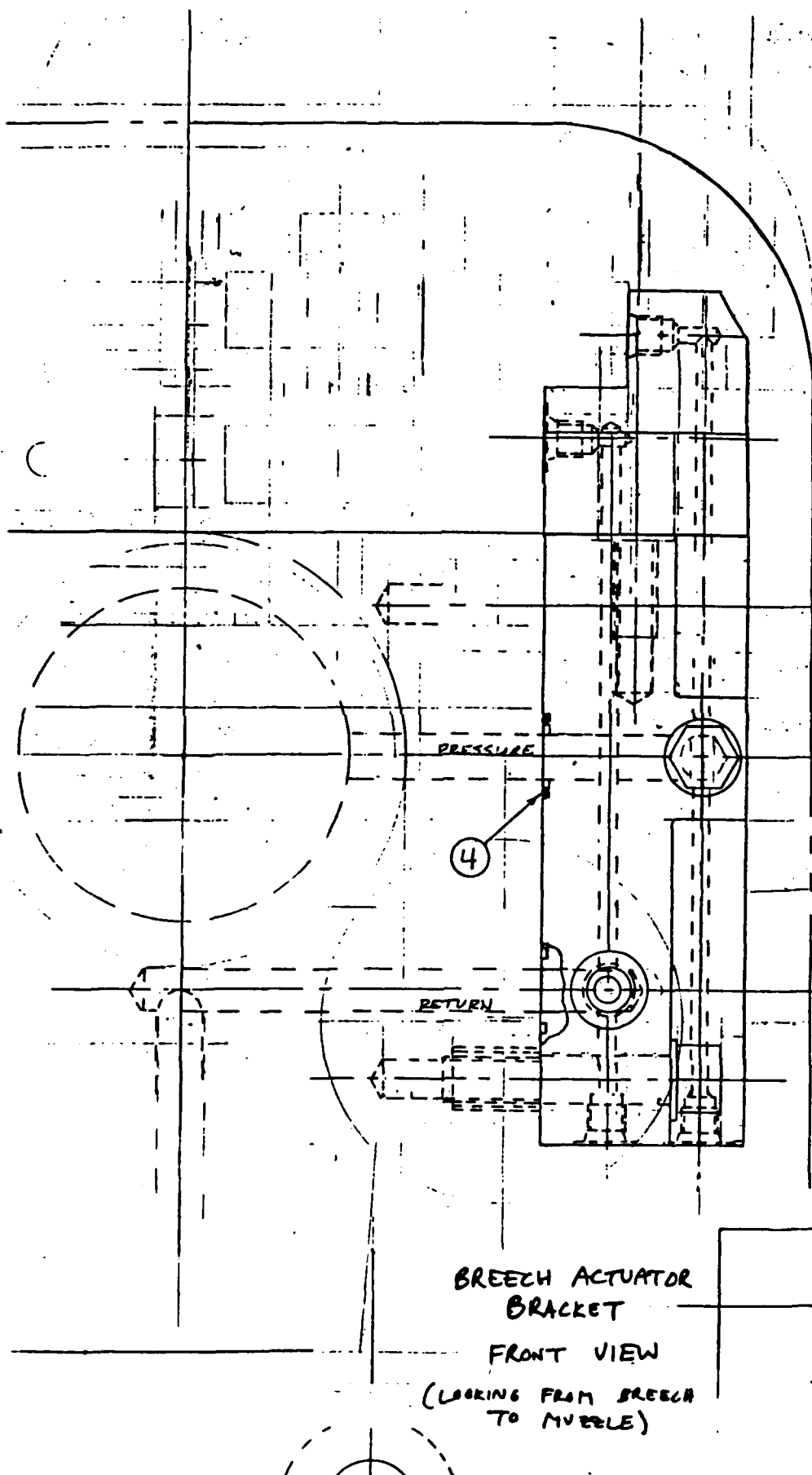
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		BRAKE SYSTEM AIR / HYDRAULIC	
ORIGINAL DATE OF DRAWING 86-12-01		SIZE B 19200	
DRAFTSMAN D. BODREAU		FSCM NO. T-12585710-225/C	
CHECKER ENGR		SCALE UNIT WT.	
TOLERANCES ON DECIMALS * FRACTIONS * THIRD ANGLE PROJECTION		SHEET 1 OF 2	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVAL	
MECHANICAL PROPERTIES		NEXT ASSY	
YP		USED ON	
TS			
EL2			
RA			
BH			
RH			

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED





FOR TURNER
CANNON ASSY
(LAYOUTS)
T-12585710-240

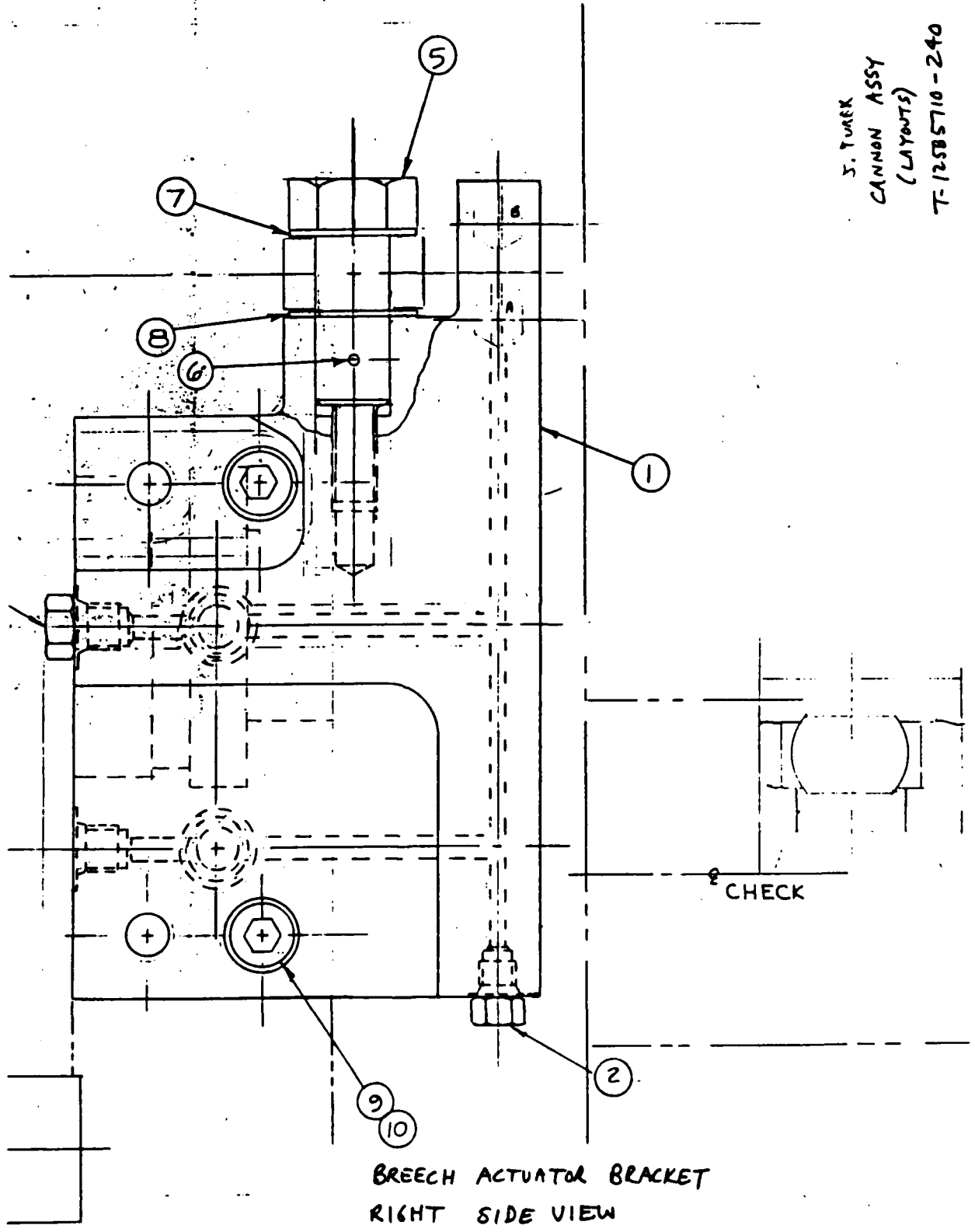


BREECH ACTUATOR
BRACKET

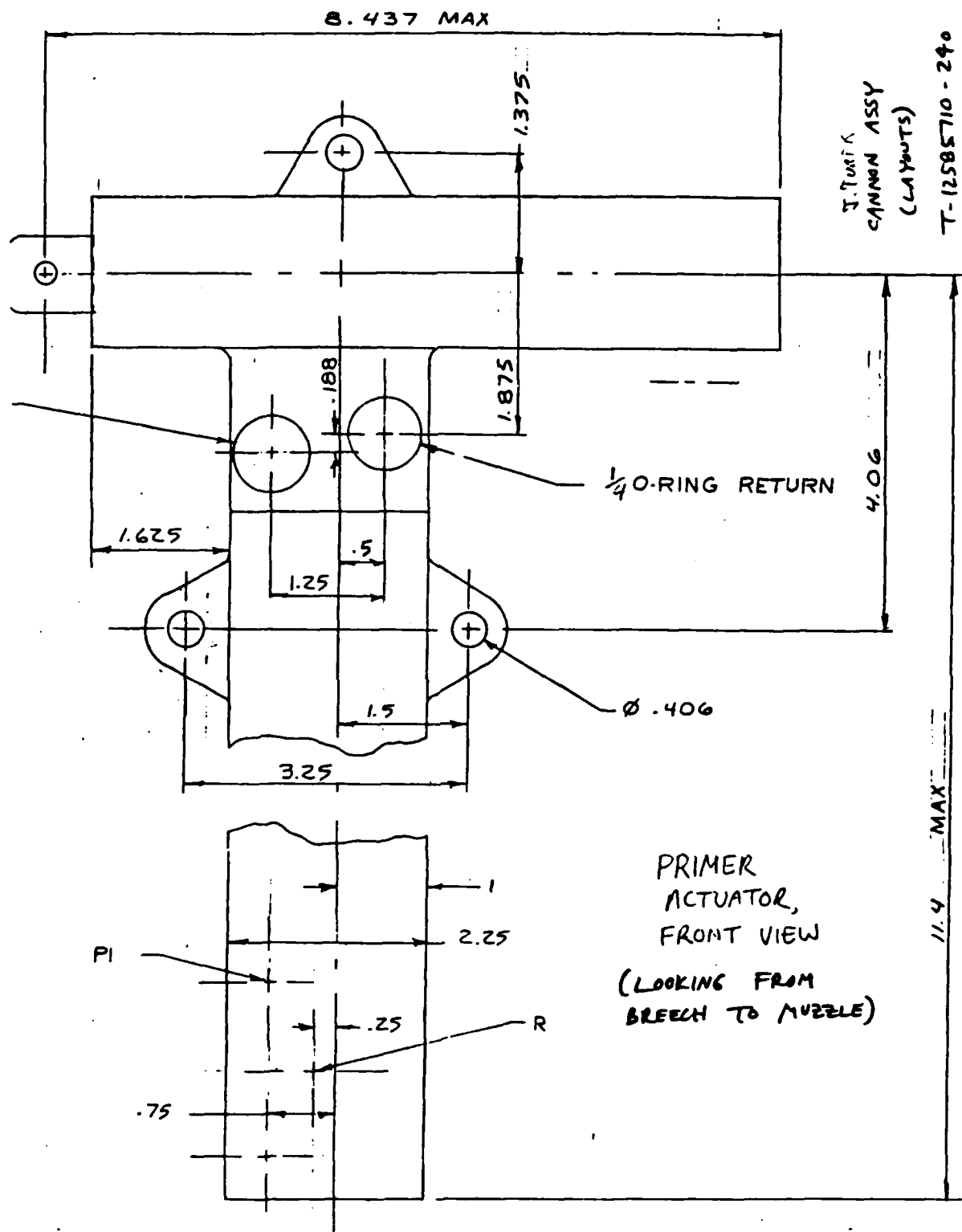
FRONT VIEW

(LOOKING FROM BREECH
TO MURBLE)

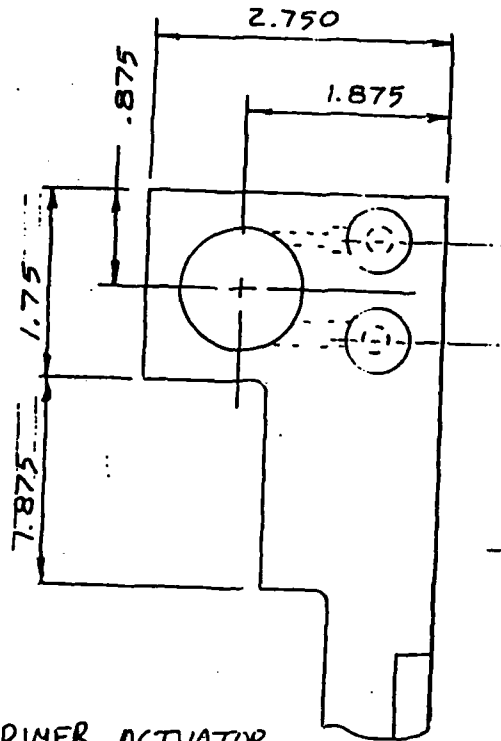
J. TUREK
CANNON ASSY
(LAYOUTS)
T-125B5710-240



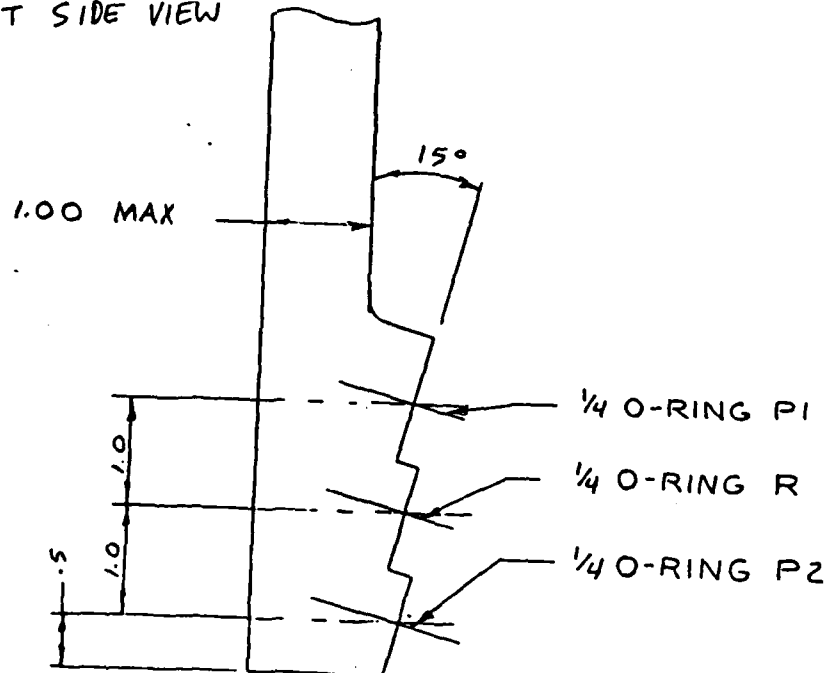
BREECH ACTUATOR BRACKET
RIGHT SIDE VIEW



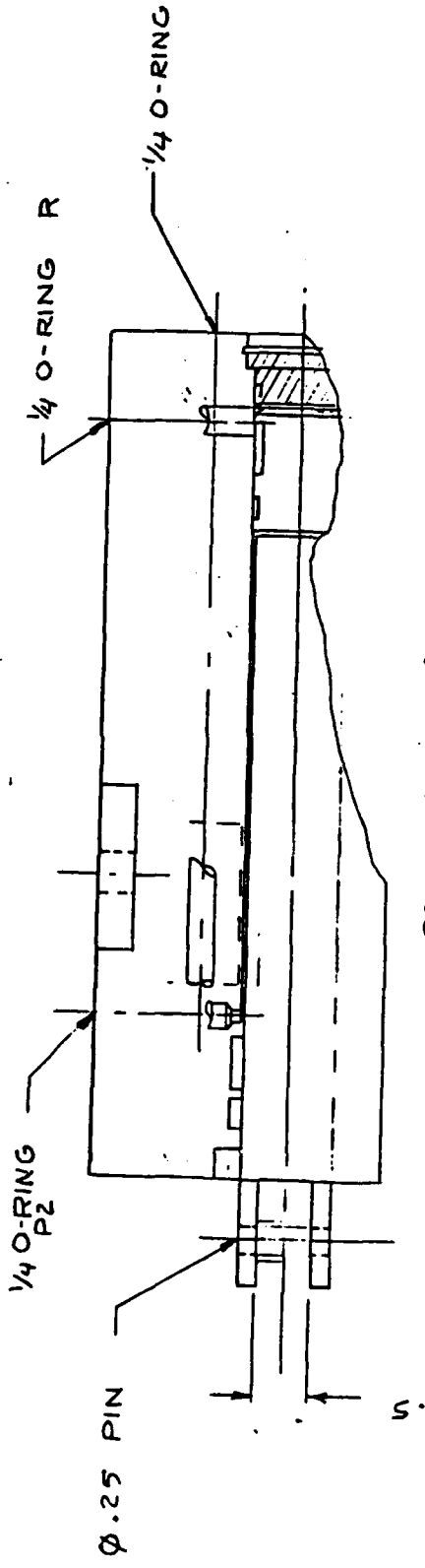
CANNON ASSY
(LAYOUTS)
T-12585710-240



PRIMER ACTUATOR,
RIGHT SIDE VIEW

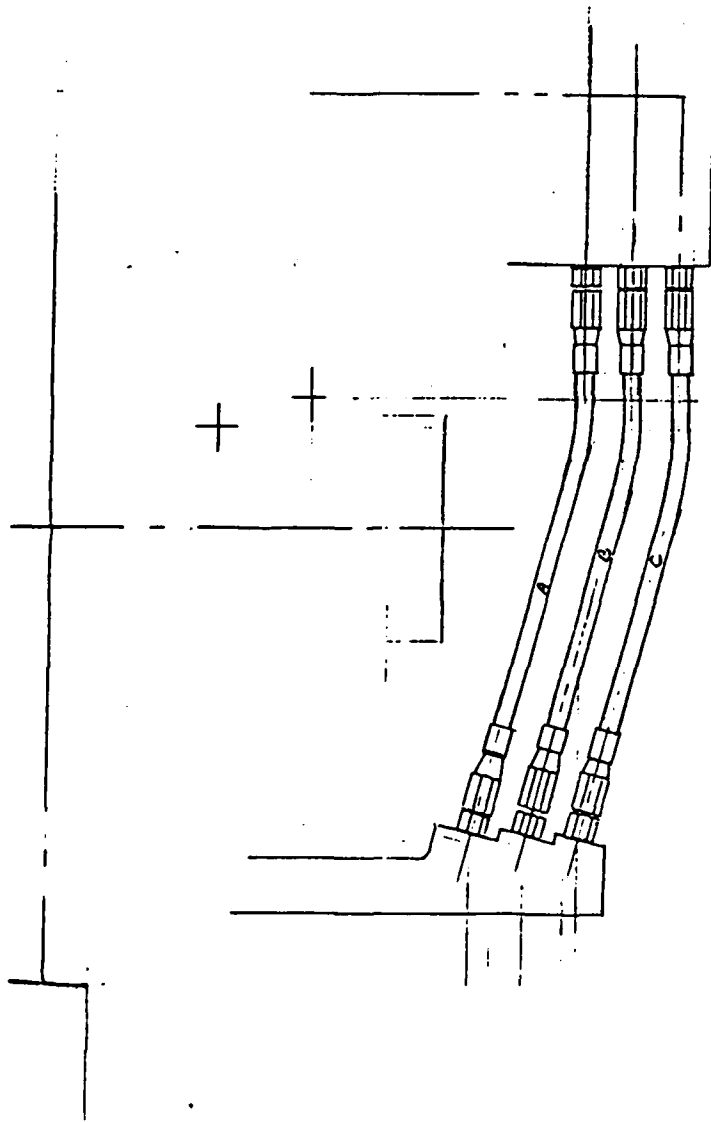


ORIGINAL DRAWING



PRIMER ACTUATOR, TOP VIEW

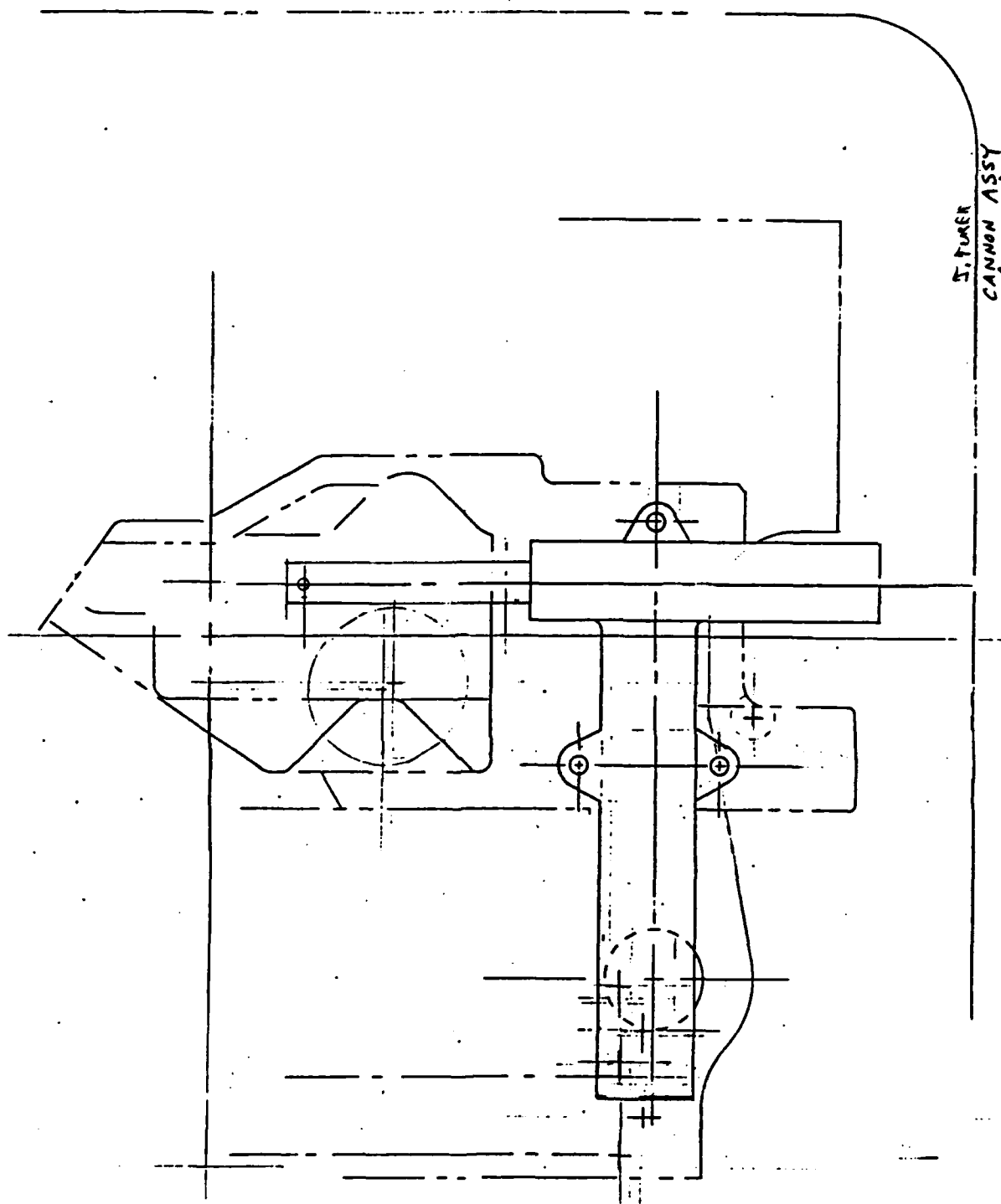
S. J. PUEKA
CANNON ASSY
(LAYOJTS)
T-12585710-240



RIGHT SIDE VIEW

HOSE ASSY PRIMER ACTUATOR TO BAND
 HOSE AEROQUIP 2807-4 X 10.18
 37° (B7-3-7) SCALE 1/2 LTHD
 J.R.T.

S. PUNE
 CANNON ASSY
 (LAYOUT)
 T-12585710-240

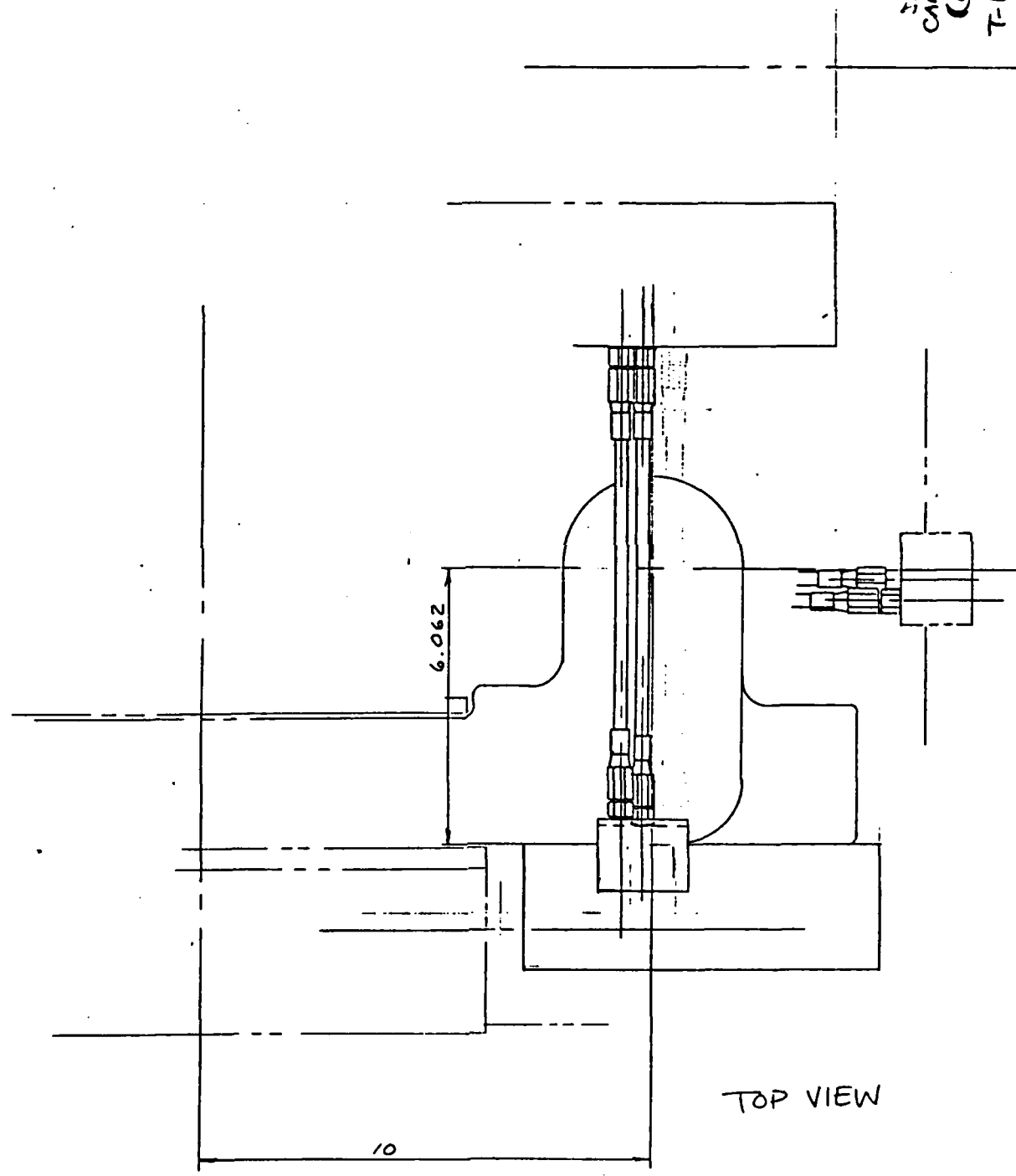


FRONT VIEW (LOOKING FROM BREECH TO MUZZLE)

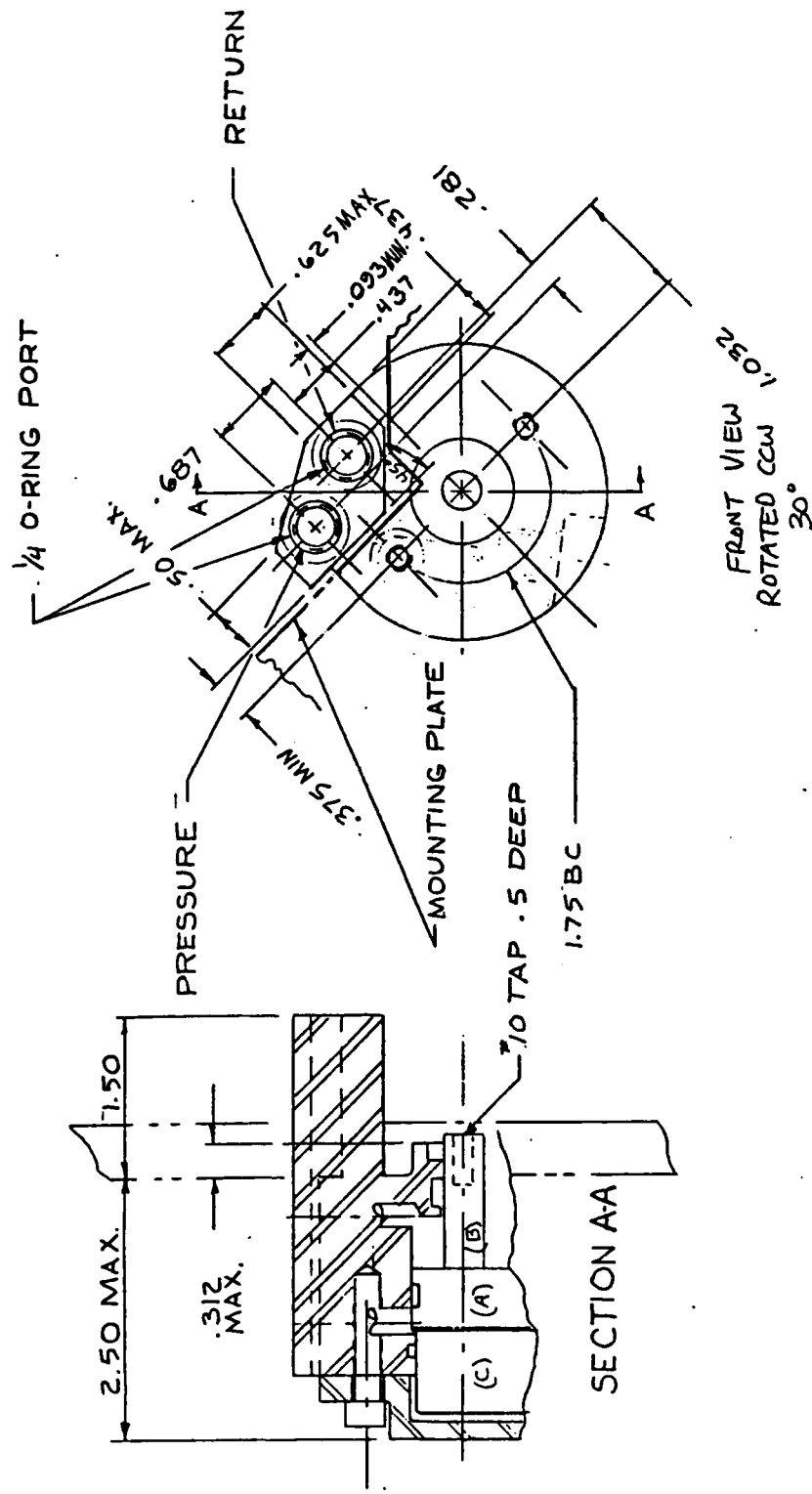
S. P. W. R. E. R.
CANNON ASSY
(LAYOUT)
T-12585710-290

3. TURN
CANNON ASSY
(LAYOUTS)

T-12585710 - 240



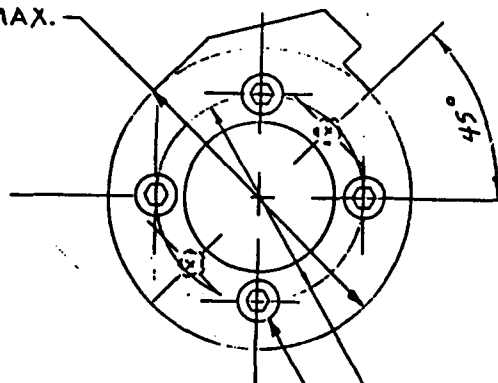
TOP VIEW



S. TURNER
CANNON ASSY
(LAYOUTS)
T-12585710-240

LTHD ACTUATOR
LANYARD

Ø 2.75 MAX.

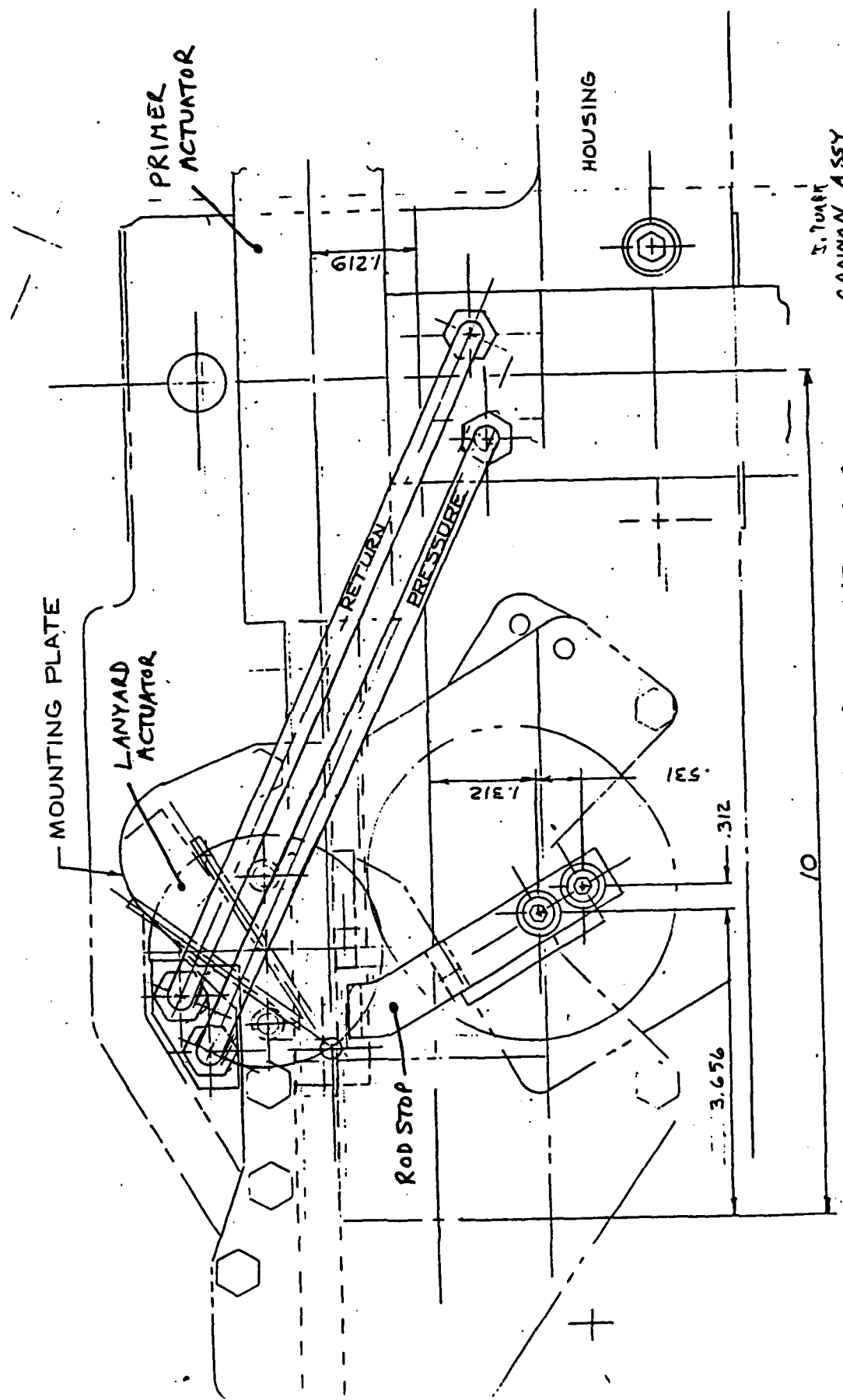


1.875 BC MAX.

LANYARD
ACTUATOR
REAR VIEW
ROTATED CCW 30°

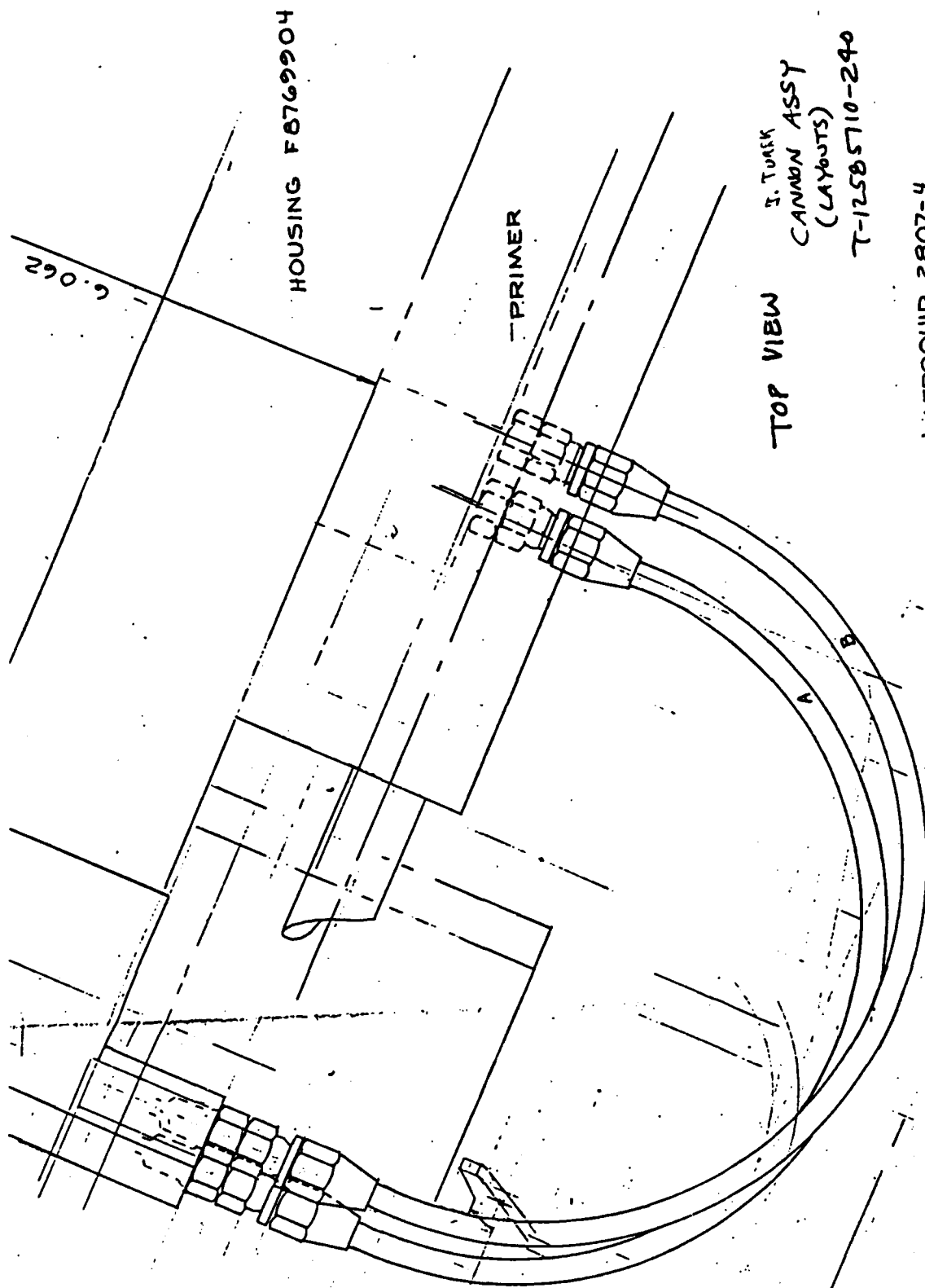
S.H.C.S 1/4-28 UNF X .75 DEEP
6 PLACES

J. T. WALKER
CANNON ASSY
(LAYOUTS)
T-12585710-240



3.7000
CANNON ASSY
(LAYOUTS)
T-125B5710-240

HOSE ASSY FROM PRIMER AUTOLOADER
TO LANYARD ACTUATOR WITH ROD STOP.
FRONT VIEW (LOOKING FROM BREACH TO MUZZLE)

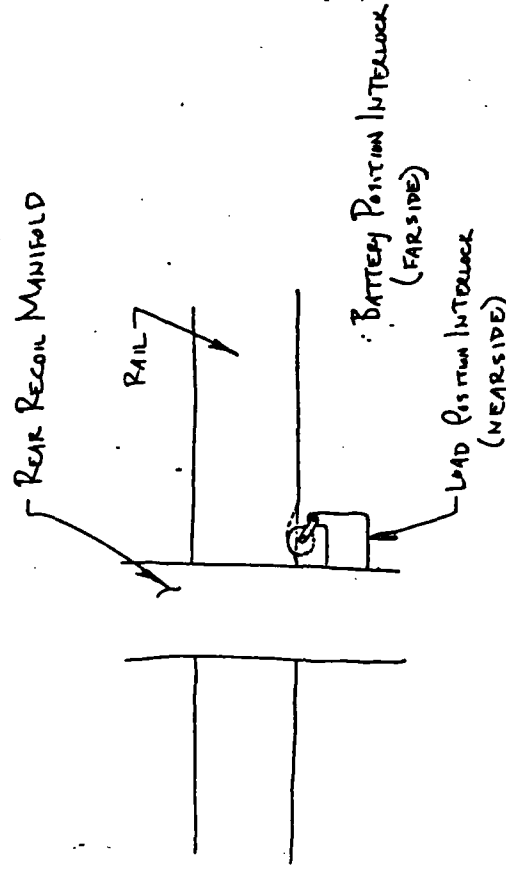


TOP VIEW
J. TURNER
CANNON ASSY
(LAYOUTS)
T-12585710-240

AEROQUIP 2807-4
A 4B HOSE W/FIT 16.375 LG

REVISIONS		
SYM	DESCRIPTION	DATE

CANNON POSITION INDICATORS



REF. DWG.	DESCRIPTION

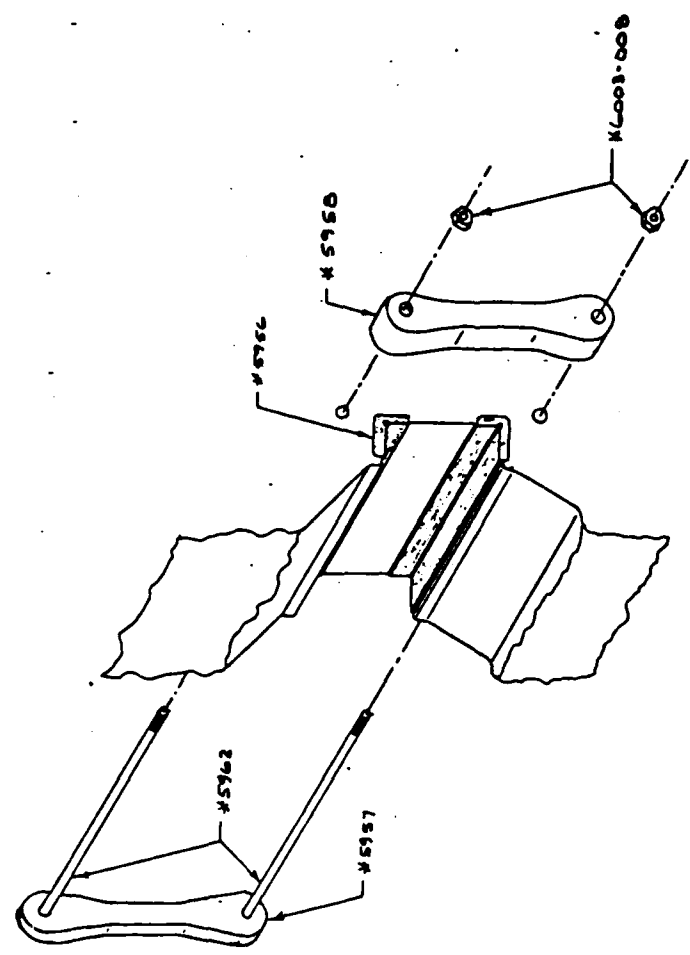
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
Compound ACTUATOR SUBASSEMBLY	
SIZE	PSCM NO.
B 19200	T-1258 5710 -240 1A
SCALE	UNIT WT.
-	-
SHEET	

MECHANICAL PROPERTIES	ORIGINAL DATE OF DRAWING	87-1-27
	DRAFTSMAN	CHECKER
	B. ANDERSON	ENGR
	ENGR	ENGR
DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS *	ANGLES *	
FRACTIONS *	THIRD ANGLE PROJECTION	
VP		
TS		
EL2		
RA		
BH		
RH		
NEXT ASSY	USED ON	
APPLICATION		

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



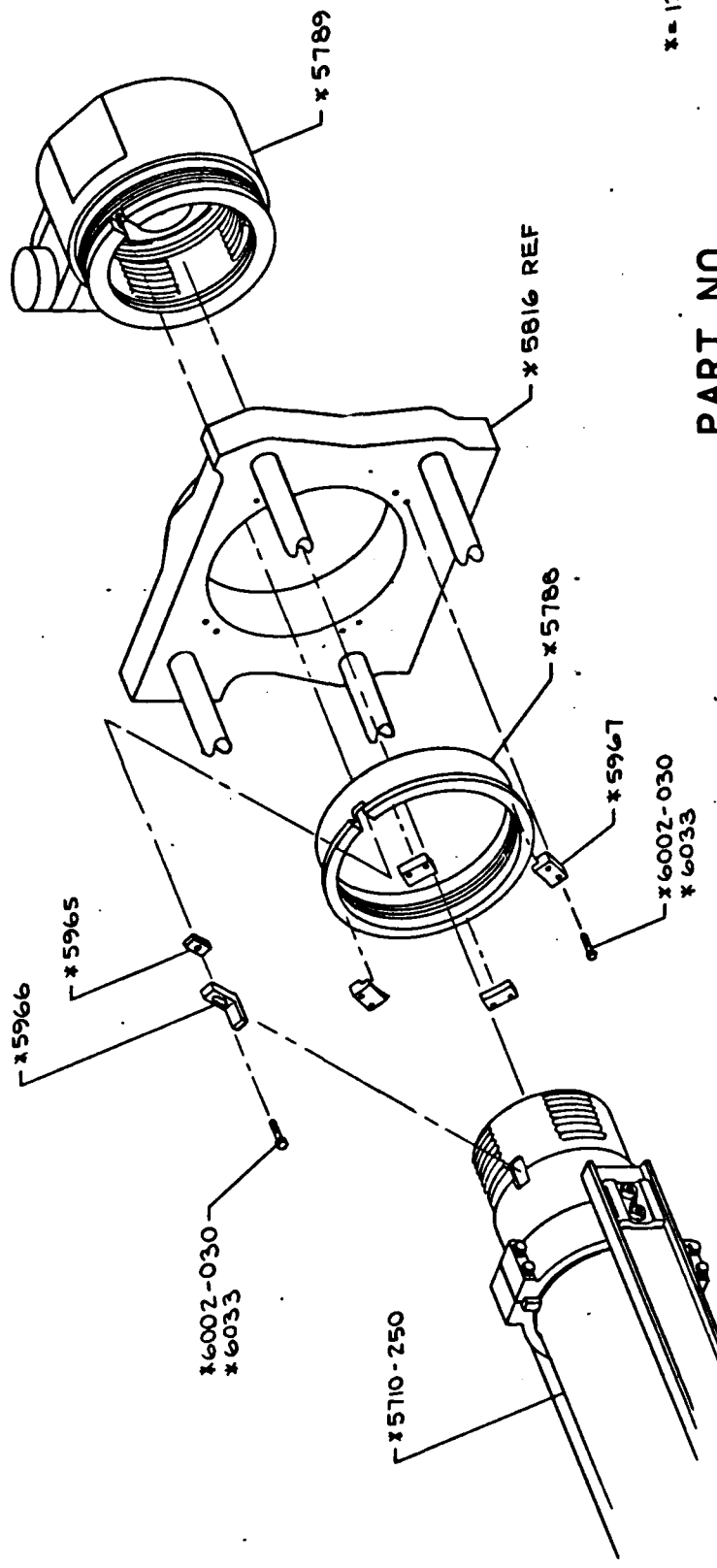
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07803-8001		ORIGINAL DATE OF DRAWING 87-1-21	
CANNON ASSEMBLY INTO CRADLE		DRAFTSMAN B. AMBLER	CHECKER ENGR
		ENGR	ENGR
		ENGR	ENGR
SIZE B 19200		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
SCALE T-1258 5 710 -240/A		THIRD ANGLE PROJECTION	
FSCM NO. 19200			
UNIT WT. —			
SHEET 1 OF 1			

SMCAR FORM 66-1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 87-1-6		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
CANNON ASSY INTO CRADLE		DRAFTSMAN M. RUMPSA		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		YP TS EL2 RA BH RH		NEXT ASSY USED ON	
SIZE B 19200		ENGR ENGR ENGR		THIRD ANGLE PROJECTION					
FSCM NO. B 19200		ENGR ENGR ENGR		THIRD ANGLE PROJECTION					
SCALE NONE				THIRD ANGLE PROJECTION					
UNIT WT.				THIRD ANGLE PROJECTION					
T-1258 5710-240 / B				THIRD ANGLE PROJECTION					
SHEET 2 OF 9				THIRD ANGLE PROJECTION					

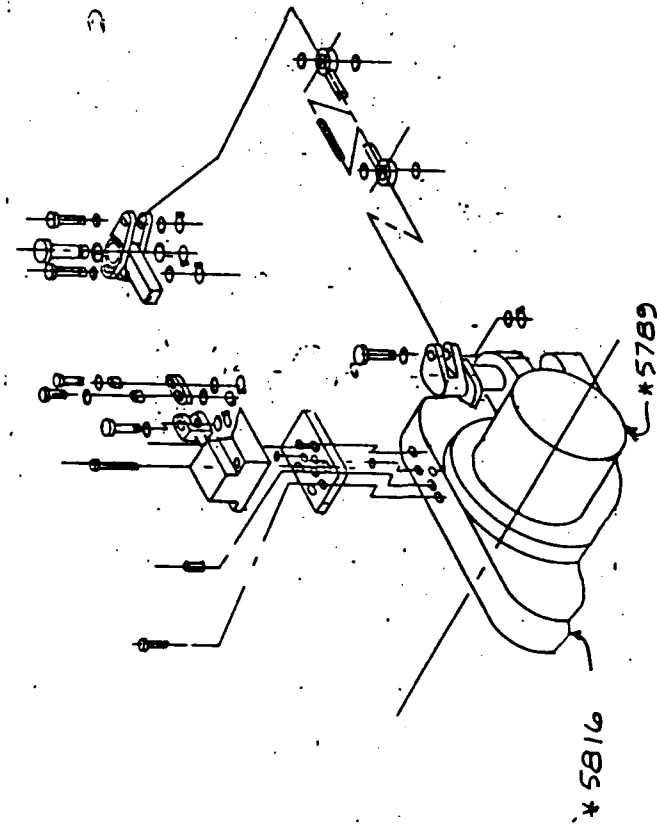
SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

REAR TRAVEL LOCK

PART NO.

SYN		REVISIONS		DATE		APPROVAL			
DESCRIPTION		DATE		DATE		APPROVAL			
		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		07-1-21		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER			
		TOLERANCES ON DECIMALS & ANGLES &		DRAFTSMAN		DOVER, NEW JERSEY 07801-8001			
		FRACTIONS &		B. ANDERSON					
		THIRD ANGLE PROJECTION		ENGR		CANNON ASSEMBLY INTO CRADLE			
MECHANICAL PROPERTIES		TOLERANCES ON DECIMALS & ANGLES &		ENGR		ENGR		ENGR	
YP		FRACTIONS &		ENGR		ENGR		ENGR	
TS		THIRD ANGLE PROJECTION		ENGR		ENGR		ENGR	
EL2		TOLERANCES ON DECIMALS & ANGLES &		ENGR		ENGR		ENGR	
RA		FRACTIONS &		ENGR		ENGR		ENGR	
BH		THIRD ANGLE PROJECTION		ENGR		ENGR		ENGR	
RH		TOLERANCES ON DECIMALS & ANGLES &		ENGR		ENGR		ENGR	
NEXT ASSY		FRACTIONS &		ENGR		ENGR		ENGR	
USED ON		THIRD ANGLE PROJECTION		ENGR		ENGR		ENGR	
APPLICATION		TOLERANCES ON DECIMALS & ANGLES &		ENGR		ENGR		ENGR	
SIZE		FSCM NO.		SCALE		UNIT WT.		SHEET	
B		19200		T-1258 5710 -240/A		3		9	

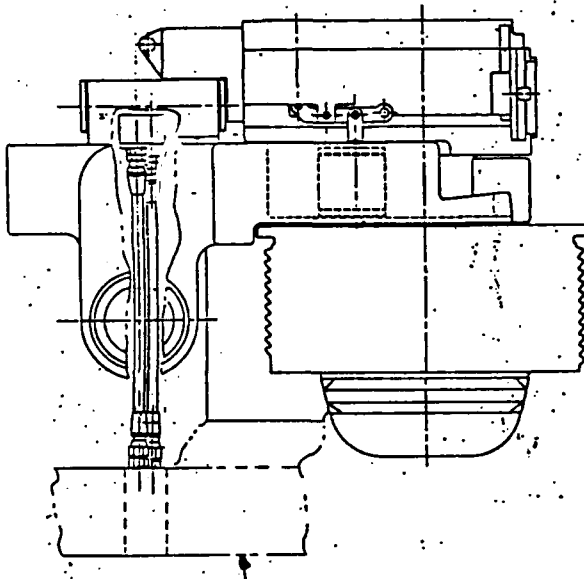
REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
CANNON ASSEMBLY INTO CRADLE	
SIZE B 19200	FSCM NO. T-1258 5710-240 1A
SCALE —	UNIT WT. —
SHEET 5 OF 7	
ORIGINAL DATE OF DRAWING 87-1-21	CHECKER ENGR
DRAFTSMAN M. BURTON	ENGR
ENGR	ENGR
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
SH	
RH	
APPLICATION	
NEXT ASSY	USED ON

SYN		DESCRIPTION		DATE		APPROVAL	
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<div style="display: flex; justify-content: space-between;"> <div> <p>REF. DWG.</p> </div> <div> <p>DESCRIPTION</p> </div> </div>							
<p>PART NO.</p>							
<p>U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001</p>							
<p>CANNON ASSEMBLY INTO CRADLE</p>							
<p>SIZE</p>		<p>FSCM NO.</p>		<p>T-1258</p>		<p>5710-240 / A</p>	
<p>B 19200</p>		<p>SCALE</p>		<p>UNIT WT.</p>		<p>SHEET 7 of 4</p>	
<p>ORIGINAL DATE OF DRAWING</p>		<p>87-1-21</p>		<p>CHECKER</p>		<p>ENGR</p>	
<p>DRAFTSMAN</p>		<p>J. TORRE</p>		<p>ENGR</p>		<p>ENGR</p>	
<p>DO NOT SCALE DRAWING</p>		<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p>		<p>TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &</p>		<p>THIRD ANGLE PROJECTION</p>	
<p>MECHANICAL PROPERTIES</p>		<p>YP</p>		<p>TS</p>		<p>EL2</p>	
<p>RA</p>		<p>BH</p>		<p>RH</p>		<p>USED ON</p>	
<p>APPLICATION</p>		<p>NEXT ASSY</p>		<p>USED ON</p>		<p>APPLICATION</p>	

DD FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION	DATE	APPROVAL

DETAIL A

PART NO.

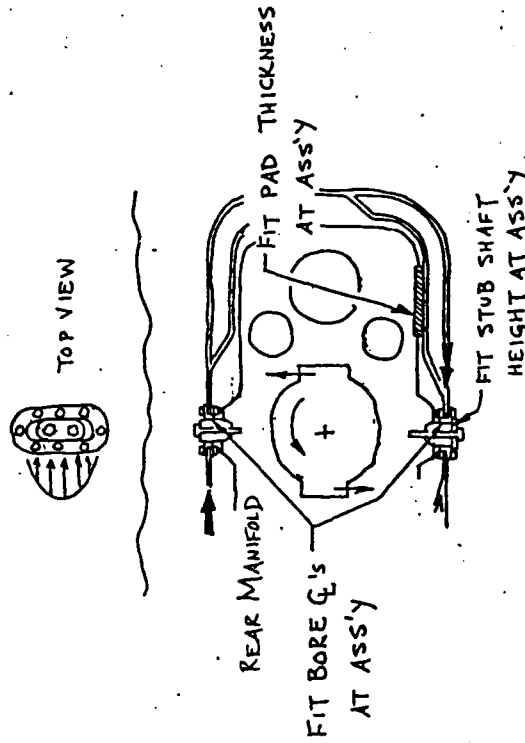
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<p>U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001</p>		<p>CANNON ASSEMBLY</p>	
		<p>SIZE B FSCM NO. 19200</p>	<p>T-1258 5710-250/A</p>
<p>SCALE NONE UNIT WT.</p>		<p>SHEET 1 OF 1</p>	

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p>		<p>87-1-21</p>	
<p>TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *</p>		<p>DRAFTSMAN M. RUMPSA</p>	<p>CHECKER</p>
<p>THIRD ANGLE PROJECTION</p>		<p>ENGR</p>	<p>ENGR</p>
<p>MECHANICAL PROPERTIES</p>		<p>TP TS EL2 RA BH RH</p>	
<p>APPLICATION</p>		<p>USED ON</p>	
<p>NEXT ASSY</p>		<p> </p>	

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

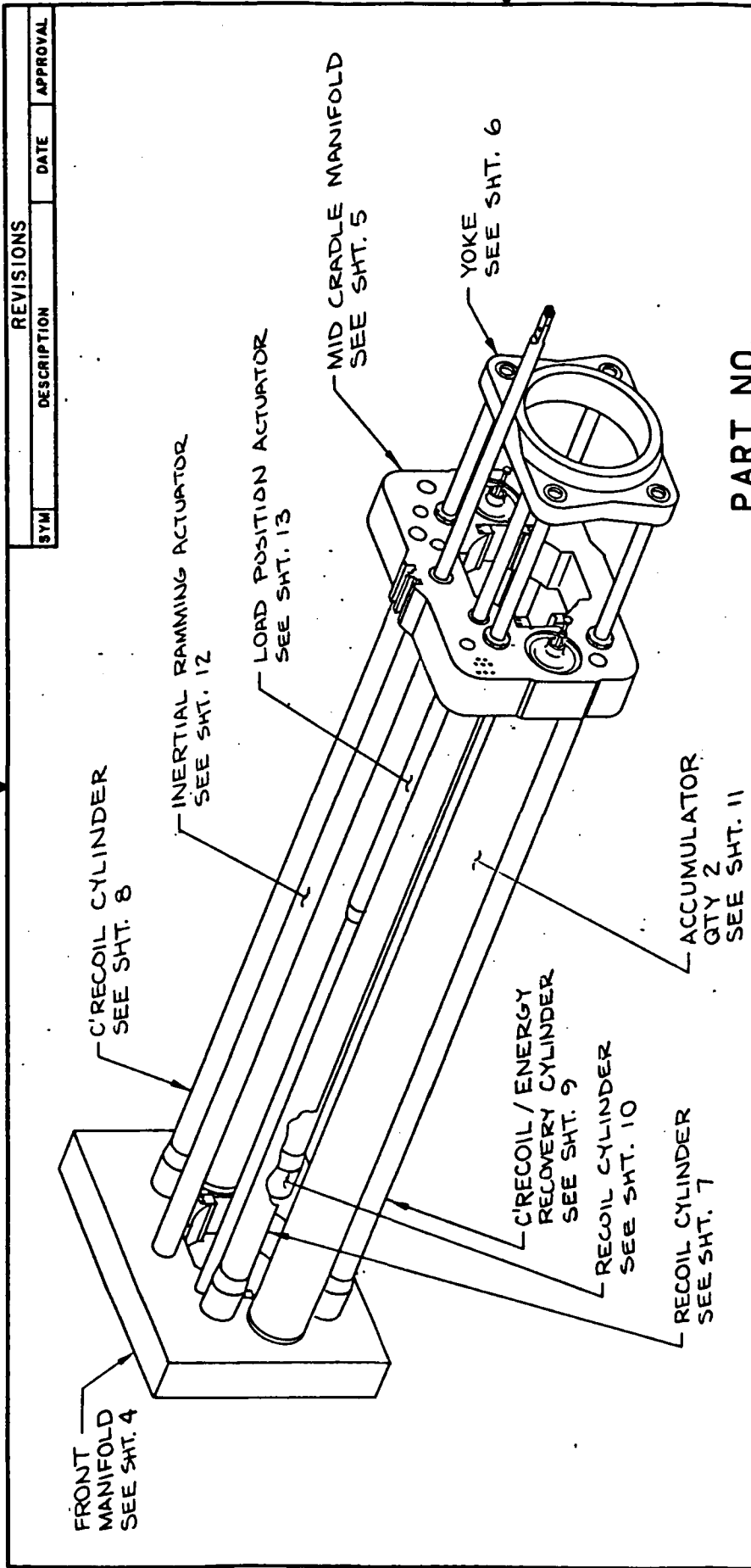
REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 87-1-27		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
COMPOUND ACTUATOR ASSEMBLY TO CRADLE		DRAFTSMAN B. A. WILSON		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		THIRD ANGLE PROJECTION		NEXT ASSY USED ON	
SIZE B 19200		CHECKER ENGR		ENGR		ENGR		ENGR	
SCALE —		UNIT WT. —		SHEET 3 OF 3		FSCM NO. 19200		T-1258 5710-260/A	



PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		COMPOUND ACTUATOR ASSEMBLY		SIZE B	FSCM NO. 19200	T-1258 5710-275/C	SCALE —	UNIT WT. —	SHEET 1 OF 13
ORIGINAL DATE OF DRAWING 87-2-9		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS * FRACTIONS * THIRD ANGLE PROJECTION		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
DRAFTSMAN M. RUMPSA		CHECKER ENGR		ENGR		ENGR		COMPOUND ACTUATOR ASSEMBLY	
MECHANICAL PROPERTIES		YP		TS		EL2		RA	
BHN		RH		THIRD ANGLE PROJECTION		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
NEXT ASSY		USED ON		APPLICATION		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		COMPOUND ACTUATOR ASSEMBLY	

DRAWING NOTES & ASSY PROCEDURE

REVISIONS		
SYM	DESCRIPTION	DATE

PART NO.

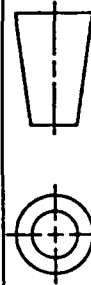
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 87-2-11	
		DRAFTSMAN B. ANDERSON ENGR	
COMPOUND ACTUATOR ASSEMBLY		CHECKER ENGR	
		ENGR	
SIZE B		FSCM NO. 19200	
SCALE T-1258		UNIT WT. 5710-275/B	
SHEET 2 OF 13		SHEET 2 OF 13	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES ON DECIMALS *
FRACTIONS *
ANGLES *

THIRD ANGLE PROJECTION



MECHANICAL
PROPERTIES



YP
TS
EL2
RA
BH
RH

NEXT ASSY

USED ON

APPLICATION

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		DATE		APPROVAL	
SYM	DESCRIPTION				
<p style="text-align: center; font-size: 24px; font-weight: bold;">DRAWING NOTES & ASSY PROCEDURE</p>					
PART NO.					
		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001			
		COMPOUND ACTUATOR ASSEMBLY			
		SIZE FSCM NO. B 19200		T-1258 5710-275/B	
		SCALE		UNIT WT.	
		ORIGINAL DATE OF DRAWING 87-2-11			
		DRAFTSMAN S. A. [Signature]		CHECKER	
		ENGR		ENGR	
		ENGR		ENGR	
		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *			
		THIRD ANGLE PROJECTION			
					
		MECHANICAL PROPERTIES			
		YP			
		TS			
		EL2			
		RA			
		BH			
		RH			
		NEXT ASSY		USED ON	
		APPLICATION			

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
 WHICH MAY BE USED UNTIL EXHAUSTED

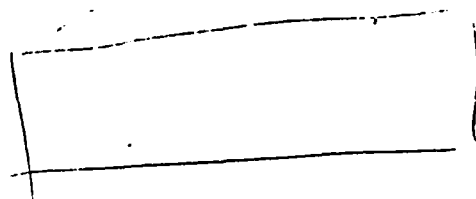
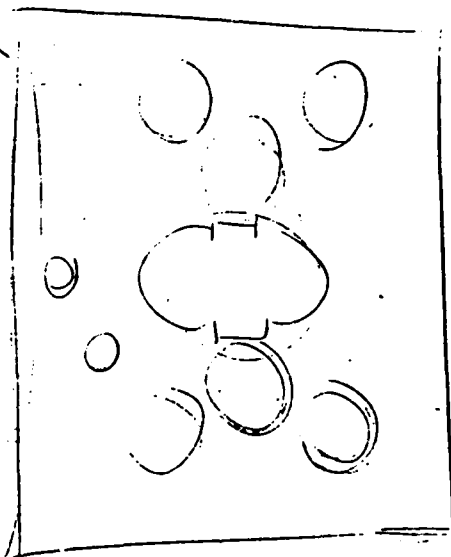
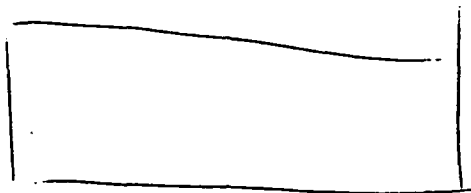
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SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

ASSY of FRONT MANIFOLD
W/ VALVES & PLUGS

- * 594A



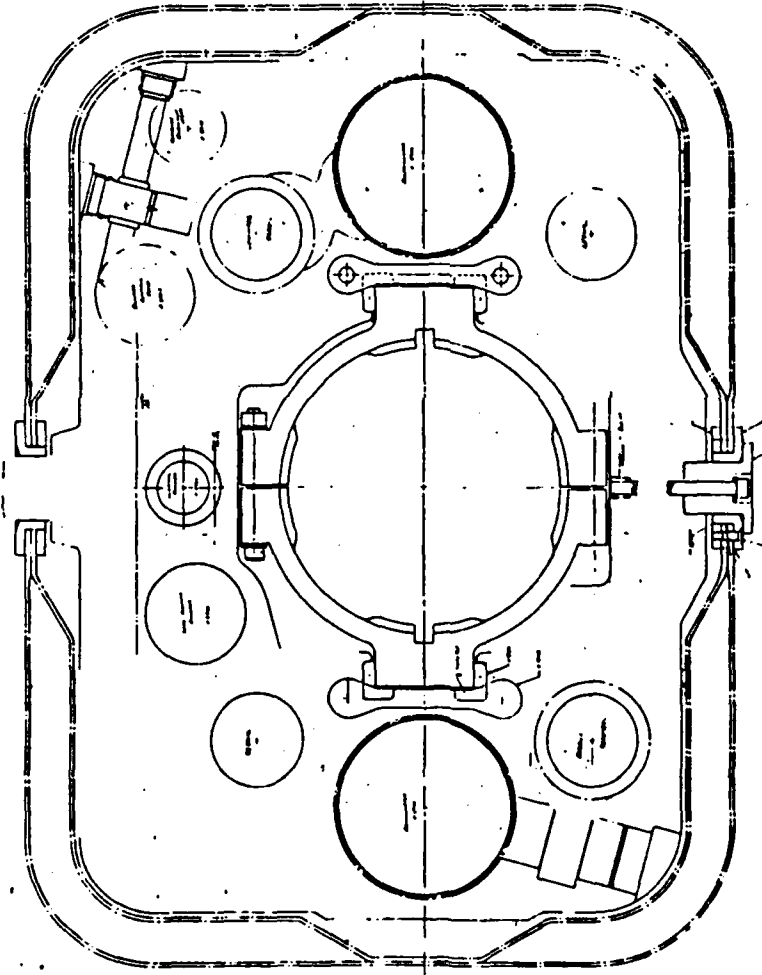
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING 87-2-11		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
COMPOUND ACTUATOR ASSEMBLY		DRAFTSMAN U. ARMY/2-04		TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION		YP TS EL2 RA BH RH		NEXT ASSY USED ON	
FSCM NO. B 19200		CHECKER ENGR ENGR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		THIRD ANGLE PROJECTION		APPROVAL	
SIZE B		SCALE		UNIT WT.		SHEET 4 OF 3			

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



ASSY OF MID-CARDUL
MANIFOLD W/ VALVES
& PLUGS

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-1-27		COMPOUND ACTUATOR SUBASSEMBLY	
YP		TOLERANCES ON DECIMALS *		DRAFTSMAN D. W. WILKINSON		CHECKER	
TS		FRACTIONS *		ENGR		ENGR	
EL2		ANGLES *		ENGR		ENGR	
RA		THIRD ANGLE PROJECTION		ENGR		ENGR	
BH		THIRD ANGLE PROJECTION		ENGR		ENGR	
RH		THIRD ANGLE PROJECTION		ENGR		ENGR	
NEXT ASSY		USED ON		SCALE		SIZE	
APPLICATION		THIRD ANGLE PROJECTION		B 19200		FSCM NO.	
				T-12585710-275 /A		SCALE	
				UNIT WT.		SHEET 5 OF 13	

SMCAR FORM 66.1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

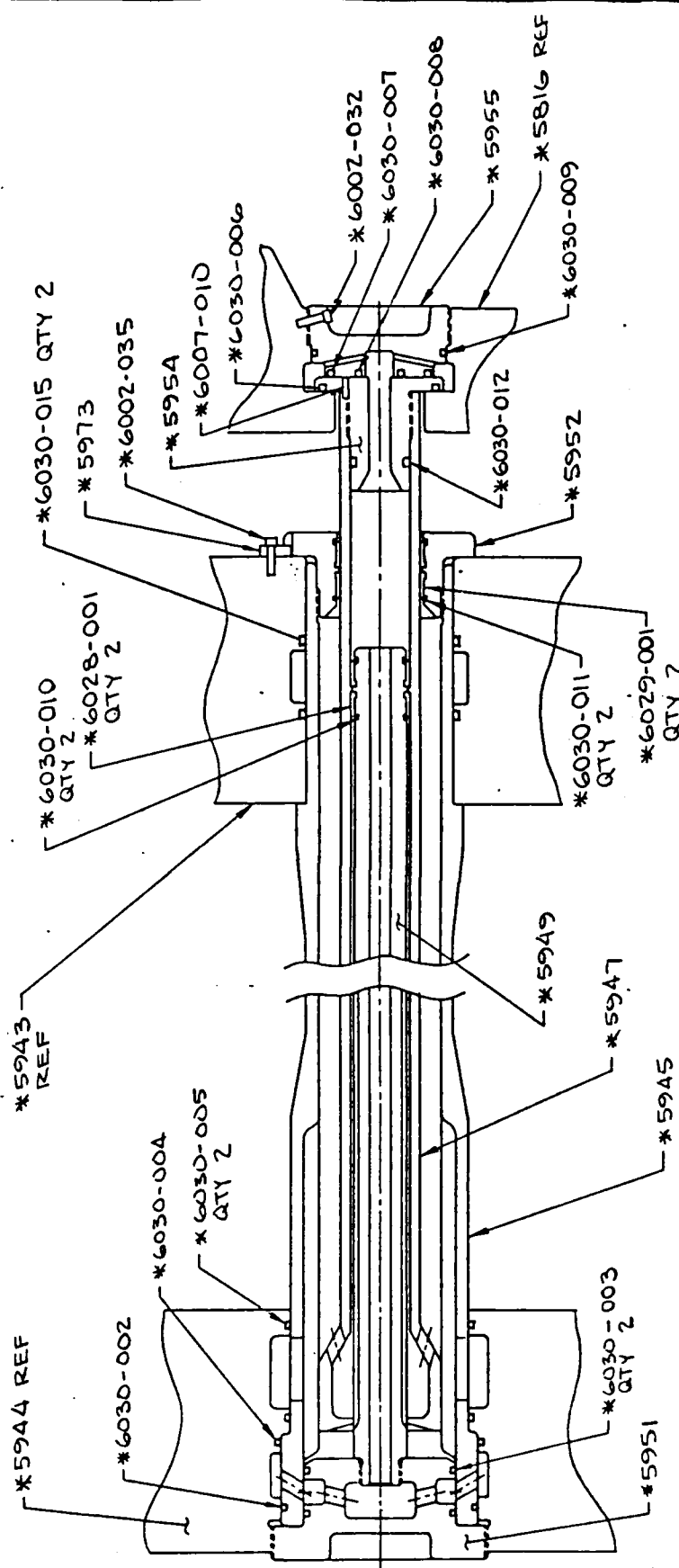
DRAWING SIZE B

SYN		REVISIONS		DATE		APPROVAL	
DESCRIPTION		DATE		APPROVAL		APPROVAL	
ASSY OF PORTING PLUGS TO YOKE							

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-2-11		DRAFTSMAN B. Anderson		COMPOUND ACTUATOR ASSEMBLY	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		ENGR		ENGR		SIZE B 19200	
THIRD ANGLE PROJECTION		ENGR		ENGR		SCALE T-1758 5710-275/B	
				UNIT WT.		SHEET 6 OF 13	
NEXT ASSY		USED ON		APPLICATION			

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

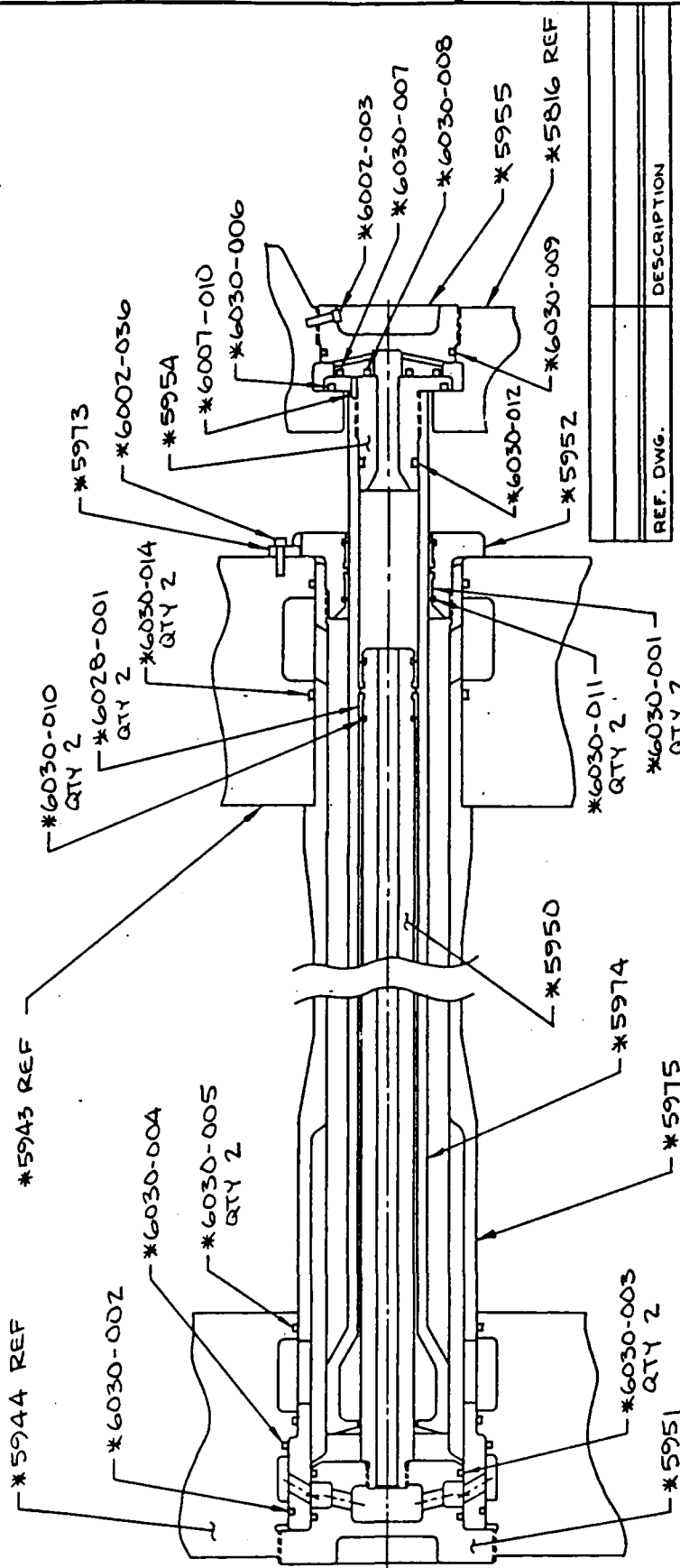


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 87-2-5		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
COMPOUND ACTUATOR ASSY.		DRAWING NO. B 19200		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		THIRD ANGLE PROJECTION		NEXT ASSY	
SIZE B 19200		FSCM NO. T-1258 5710-275/B		DRAFTSMAN M. RUMYSA		CHECKER ENGR		USED ON	
SCALE		UNIT WT.		ENGR		ENGR		APPLICATION	
SHEET 7 OF 13									

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRACOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

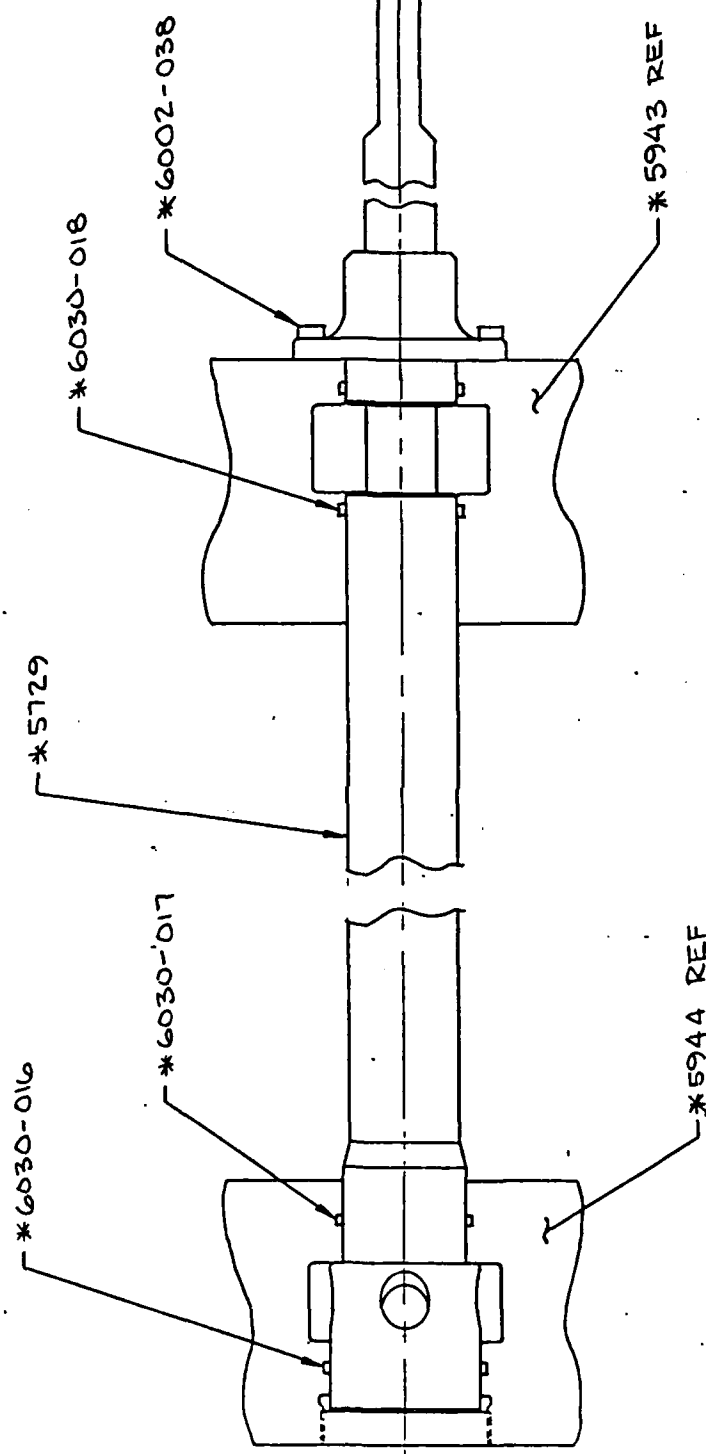


PART NO.		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
COMPOUND ACTUATOR ASSY.		COMPOUND ACTUATOR ASSY.	
SIZE	FAC NO	SCALE	UNIT WT.
B	19200	T-1258	5710-275/B
ORIGINAL DATE OF DRAWING		DO NOT SCALE DRAWING	
87-2-5		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
DRAFTSMAN	CHECKER	TOLERANCES ON DECIMALS *	THIRD ANGLE PROJECTION
M. RUMPSA	ENGR	FRACTIONS *	ANGLES *
ENGR	ENGR		
ENGR	ENGR		
MECHANICAL PROPERTIES		APPLICATION	
YP		NEXT ASSY	
TS		USED ON	
EL2			
RA			
BH			
RH			

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

SYN		REVISIONS		DATE		APPROVAL	
SYM		DESCRIPTION		DATE		APPROVAL	
<p>Technical drawing of a Compound Actuator Assembly. The drawing shows a cross-section of the assembly with various components labeled with part numbers and quantities. Key components include: *5944 REF, *6030-002, *6030-004, *6030-005 QTY 2, *5943 REF, *6030-010 QTY 2, *6028-001 QTY 2, *5973, *6002-035, *5954, *6007-010, *6030-006, *6002-032, *6030-007, *6030-008, *5955, *5816 REF, *6030-009, *6030-012, *5952, *6030-015 QTY 3, *6030-011 QTY 2, *6029-001 QTY 2, *5949, *5947, *5945, *6030-003 QTY 2, *5951, and *5943 REF.</p>							
<p>DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p>				<p>ORIGINAL DATE OF DRAWING 87-2-5</p>			
<p>MECHANICAL PROPERTIES</p>				<p>DRAFTSMAN M. J. J. J. J.</p>			
<p>YP</p>				<p>CHECKER</p>			
<p>TS</p>				<p>ENGR</p>			
<p>EL2</p>				<p>ENGR</p>			
<p>RA</p>				<p>ENGR</p>			
<p>BH</p>				<p>ENGR</p>			
<p>RH</p>				<p>ENGR</p>			
<p>THIRD ANGLE PROJECTION</p>				<p>ENGR</p>			
<p>APPLICATION</p>				<p>ENGR</p>			
<p>NEXT ASSY</p>				<p>USED ON</p>			
<p>U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001</p>				<p>COMPOUND ACTUATOR ASSY.</p>			
<p>SIZE B 19200</p>				<p>SCALE 1:1</p>			
<p>UNIT WT.</p>				<p>SHEET 10 OF 13</p>			

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

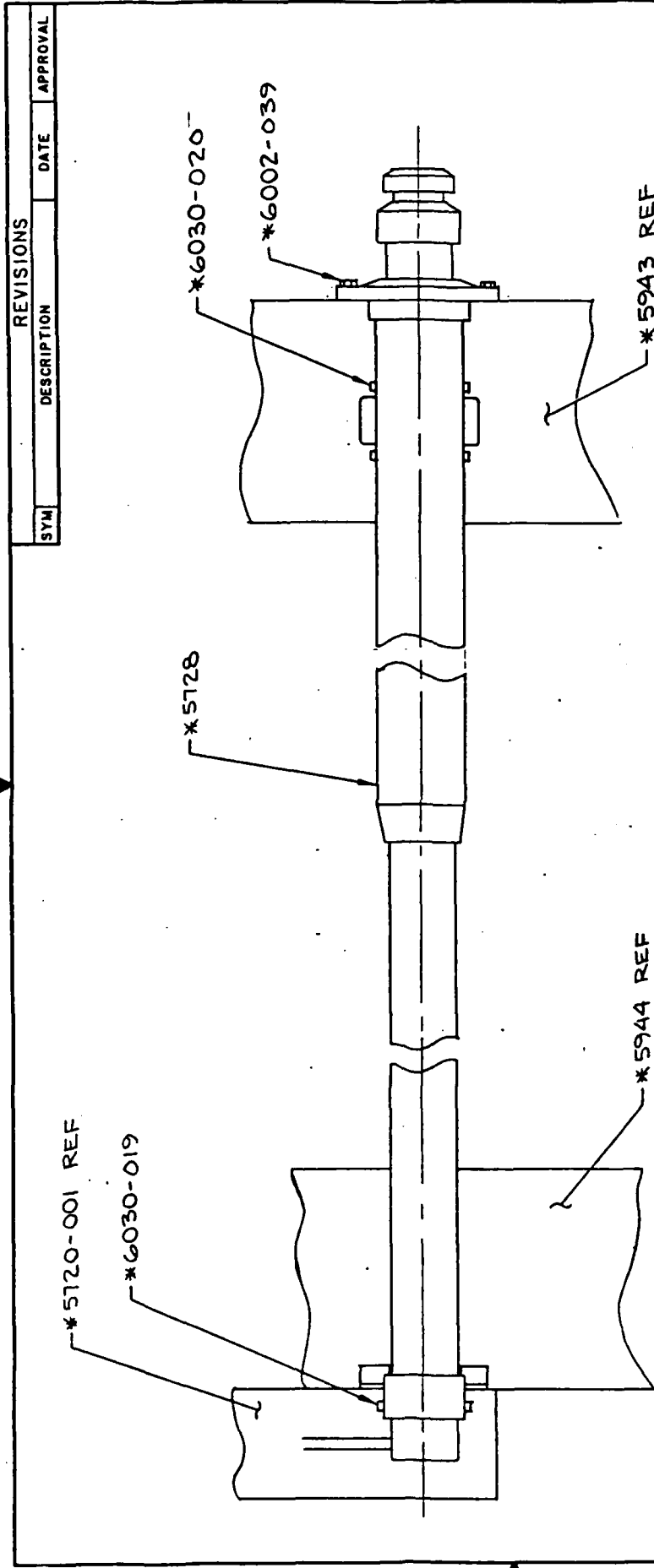

$$* = 1758$$

PART NO.

[illegible]

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

UNCLASSIFIED



PART NO.

*1258

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 87-2-11		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
MECHANICAL PROPERTIES		DRAFTSMAN M RUMPSA		COMPOUND ACTUATOR ASSEMBLY	
YP		ENGR		ENGR	
TS		ENGR		ENGR	
EL2		ENGR		ENGR	
RA		ENGR		ENGR	
BH		ENGR		ENGR	
RH		ENGR		ENGR	
THIRD ANGLE PROJECTION		CHECKER		FSCM NO.	
				B 19200	
NEXT ASSY		USED ON		SCALE	
APPLICATION				UNIT WT.	
				SHEET 13 OF 13	

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL FPMH1517F1

UNCLASSIFIED

REVISIONS		
SYM	DESCRIPTION	DATE

CABLE ASSY TO EQUIV ACT - GIMBAL

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING 87-1-27	
		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
CRADLE ASSEMBLY TO GIMBAL		DRAFTSMAN B. Ambrose	
SIZE B		CHECKER ENGR	
FSCM NO. 19200		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES & THIRD ANGLE PROJECTION	
SCALE —		UNIT WT. —	
SHEET 2 of 6			



SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

REVISIONS

DESCRIPTION

DATE

APPROVAL

ELUSION CAN MOUNT TO CRADLE

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001
U.S. ARMY

CRADLE ASSEMBLY TO GIMBAL

SIZE B	FSCM NO. 19200	T-1258 5710 -340 /A
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SCALE	UNIT WT.	SHEET
—	—	4 of 6

ORIGINAL DATE OF DRAWING

87-1-27

DRAFTSMAN	CHECKER
-----------	---------

ENGINEER

ENGR

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES ON DECIMALS

FRACTIONS	ANGLES
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$	1° 2° 3° 4° 5° 6° 7° 8° 9° 10° 11° 12° 13° 14° 15° 16° 17° 18° 19° 20° 21° 22° 23° 24° 25° 26° 27° 28° 29° 30° 31° 32° 33° 34° 35° 36° 37° 38° 39° 40° 41° 42° 43° 44° 45° 46° 47° 48° 49° 50° 51° 52° 53° 54° 55° 56° 57° 58° 59° 60° 61° 62° 63° 64° 65° 66° 67° 68° 69° 70° 71° 72° 73° 74° 75° 76° 77° 78° 79° 80° 81° 82° 83° 84° 85° 86° 87° 88° 89° 90° 91° 92° 93° 94° 95° 96° 97° 98° 99° 100°

THIRD ANGLE PROJECTION



MECHANICAL PROPERTIES

3

Tg

272

RA

工

1

USED ON	NEXT ASSY

APPLICATION

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-1001
U.S. ARMY

CRADLE ASSEMBLY TO GIMBAL

SIZE B	FSCM NO. 19200	T-1258 5710 -340/A	
SCALE —	UNIT WT. —	SHEET 5"6	

87-1-27

DRAFTSMAN B. ANDERSON	CHECKER
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ENGR

ENGINE

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES ON DECIMALS & FRACTIONS & ANGLES

THIRD ANGLE PROJECTION

MECHANICAL PROPERTIES

28

23

273

RA

3

NO

14

mm

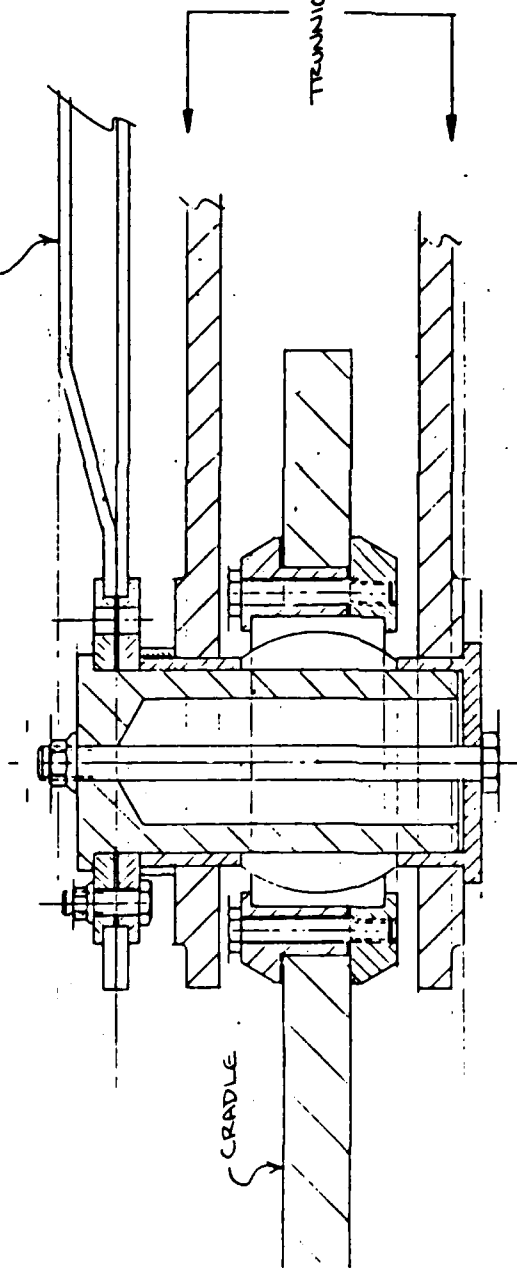
NEXT ASSY	USED ON
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APPLICATION

BSM CAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

SUPPORT STRUT (FIRE CONTROL)



REF. DWG.	DESCRIPTION

PART NO.

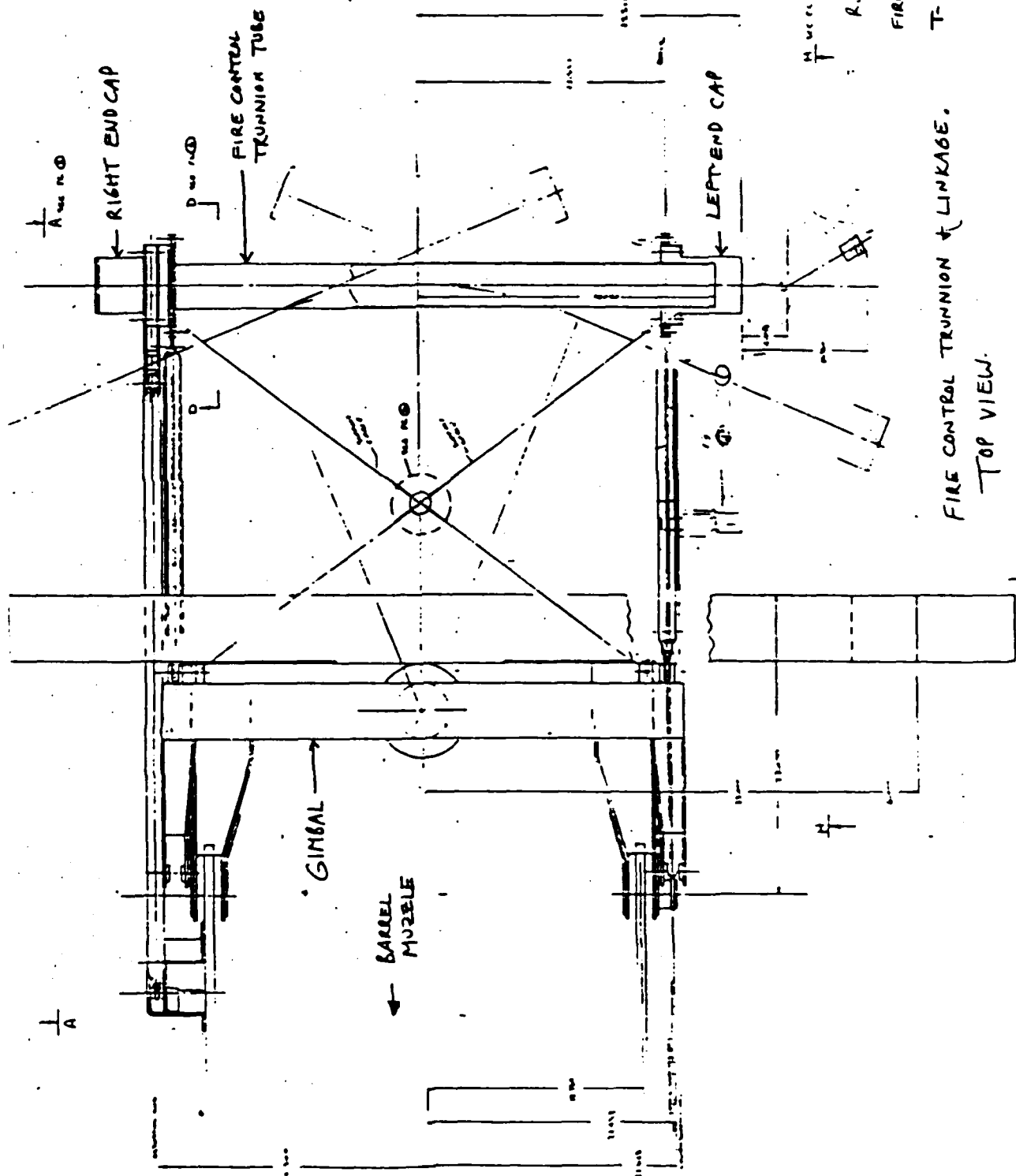
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
CRADLE Assy TO GIMBAL	
SIZE B	FORM NO. 19200
SCALE	UNIT WT.
T-1298 5710 -340 /A	
SHEET 54 OF 6	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		DRAFTSMAN R. M. LARSON	CHECKER
THIRD ANGLE PROJECTION		ENGR	ENGR
		ENGR	ENGR

MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
BH	
RH	

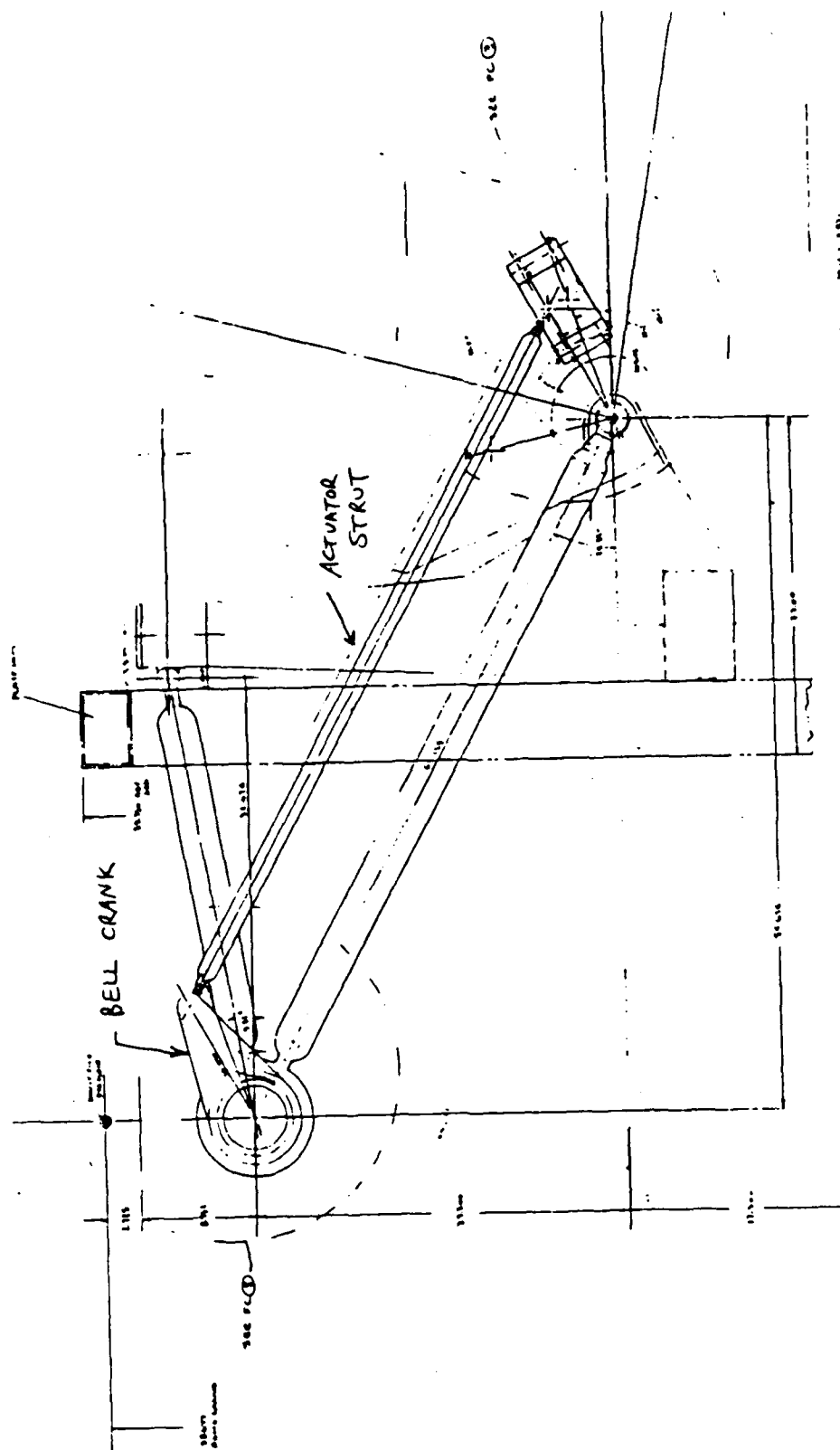
NEXT ASSY	USED ON
APPLICATION	

SMCAR FORM 66, 1 JUN 65 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED



FIRE CONTROL TRUNNION & LINKAGE.
TOP VIEW.

R. LARSON
FIRE CONTROL + OPTICS
(LAYOUT)
T-12585710-400
SMT 10 F 6

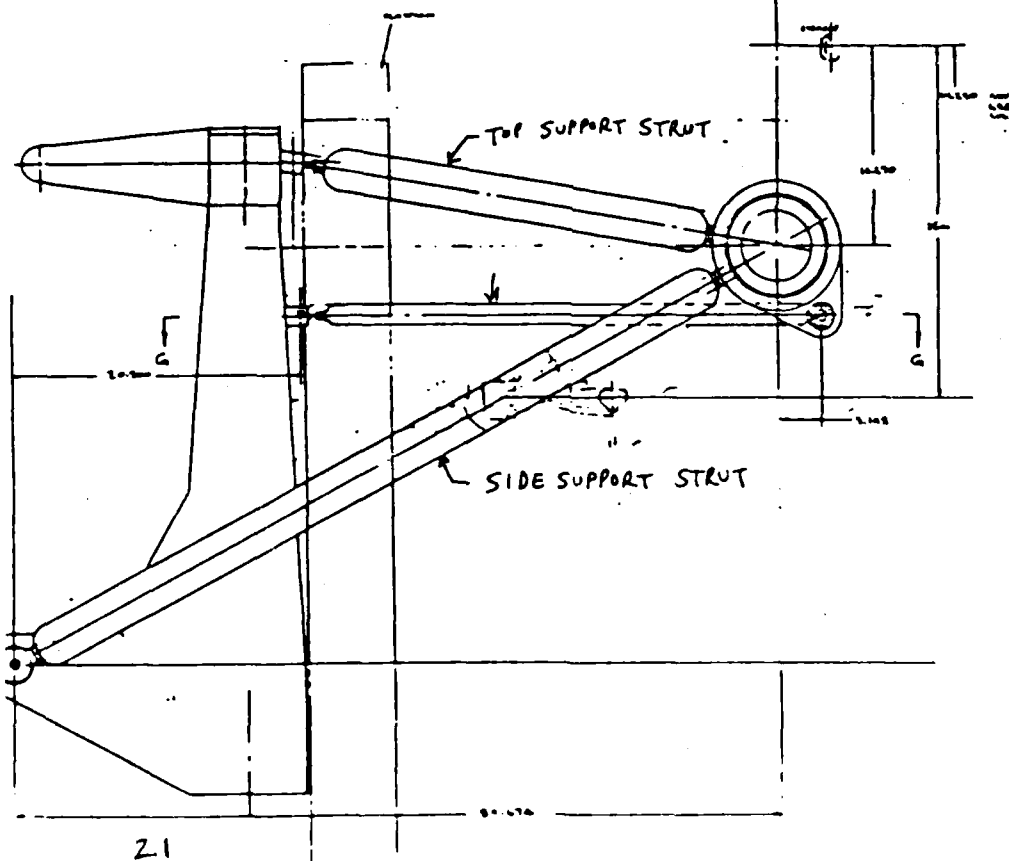
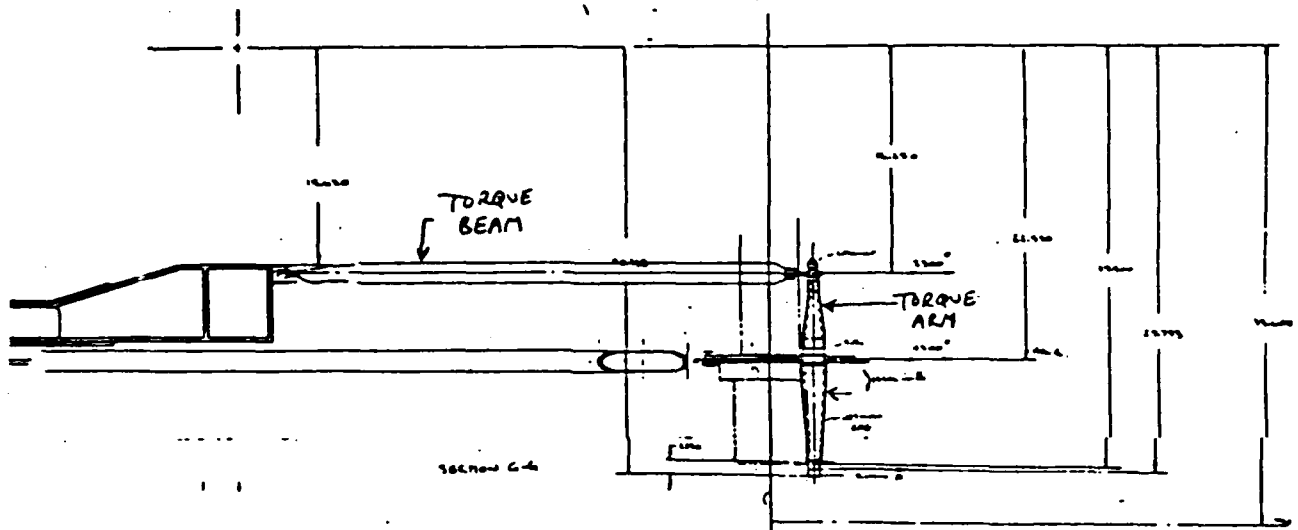


VIEW A-A
ROTATED 180°
see PL 10

RIGHT SIDE VIEW

2.

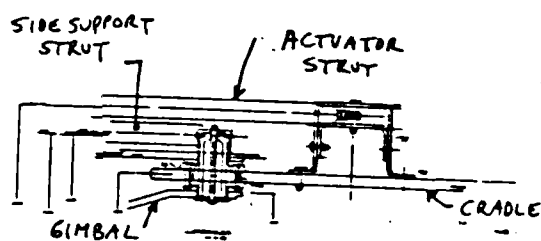
FIRE CONTROL OPTICS
(LAYOUT)
T-12585710 - 900
SMT 2006



LEFT SIDE VIEW

FIRE CONTROL OPTICS (LAYOUT)
 T-12505710-400
 SMT 3 OF 6

FIRE CONTROL OPTICS
(LAYOUT)
T-12585710-400
SMT 6 OF 6

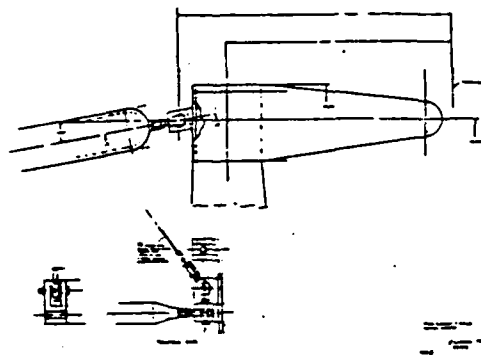


WORM'S EYE VIEW AT
RIGHT CRADLE TRUNNION

FIRE CONTROL + OPTICS
(LAYOUT)

T-12585710-400

SHT 5 OF 6



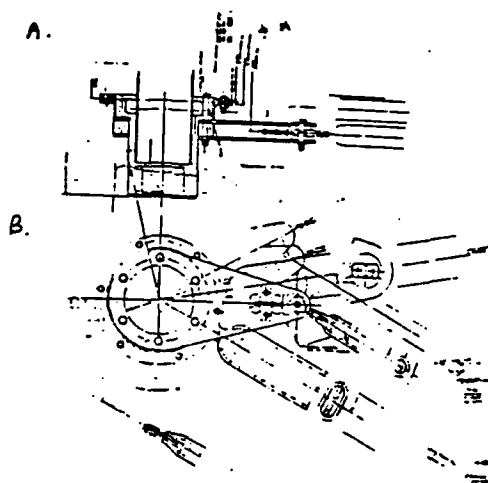
TOP VIEW AT GIMBAL-
TOP STRUT INTERFACE.

FIRE CONTROL + OPTICS

(LAYOUT)

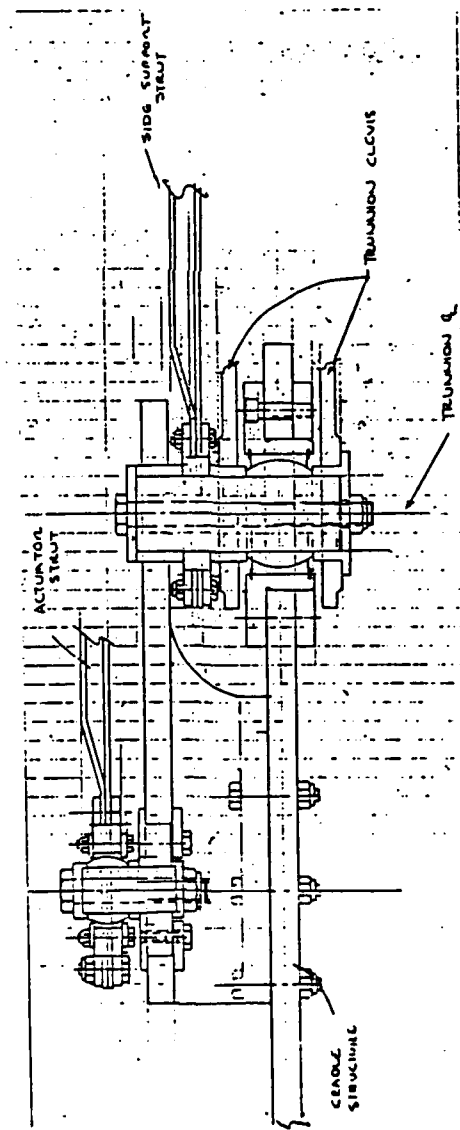
T-12585710-400

SHT 6 OF 6



A. TOP VIEW AND B. RIGHT SIDE VIEW
AT BELL CRANK

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

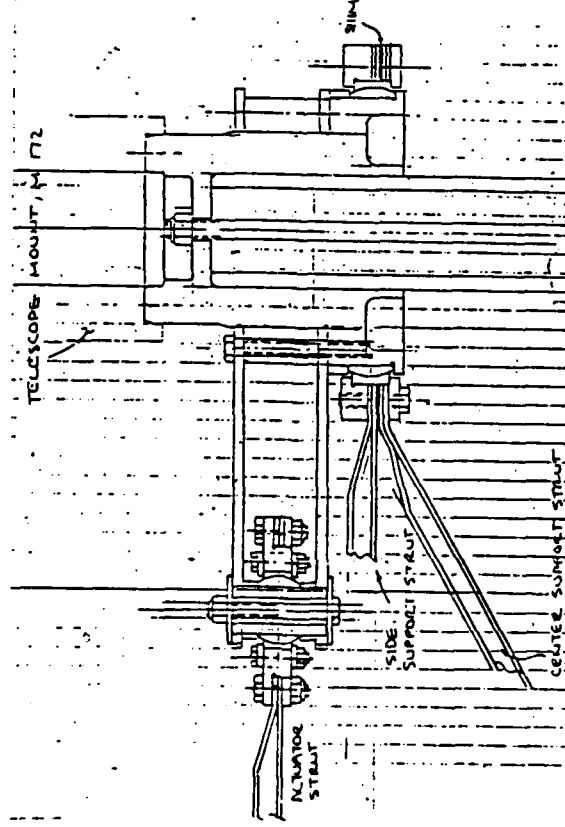


REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		FIRE CONTROL AND OPTICS	
SIZE B	FSCM NO. 19200	T-1258 5710	-400/A
SCALE	UNIT WT.	SHEET 2 OF 4	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 87-1-27	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		CHECKER DRAFTSMAN R. LARSON	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		ENGR	
YP		ENGR	
TS		ENGR	
EL2		ENGR	
RA		ENGR	
BH		ENGR	
RH		ENGR	
NEXT ASSY		USED ON	
APPLICATION			

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



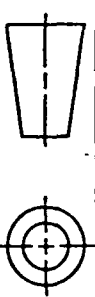
REF. DWG.	DESCRIPTION

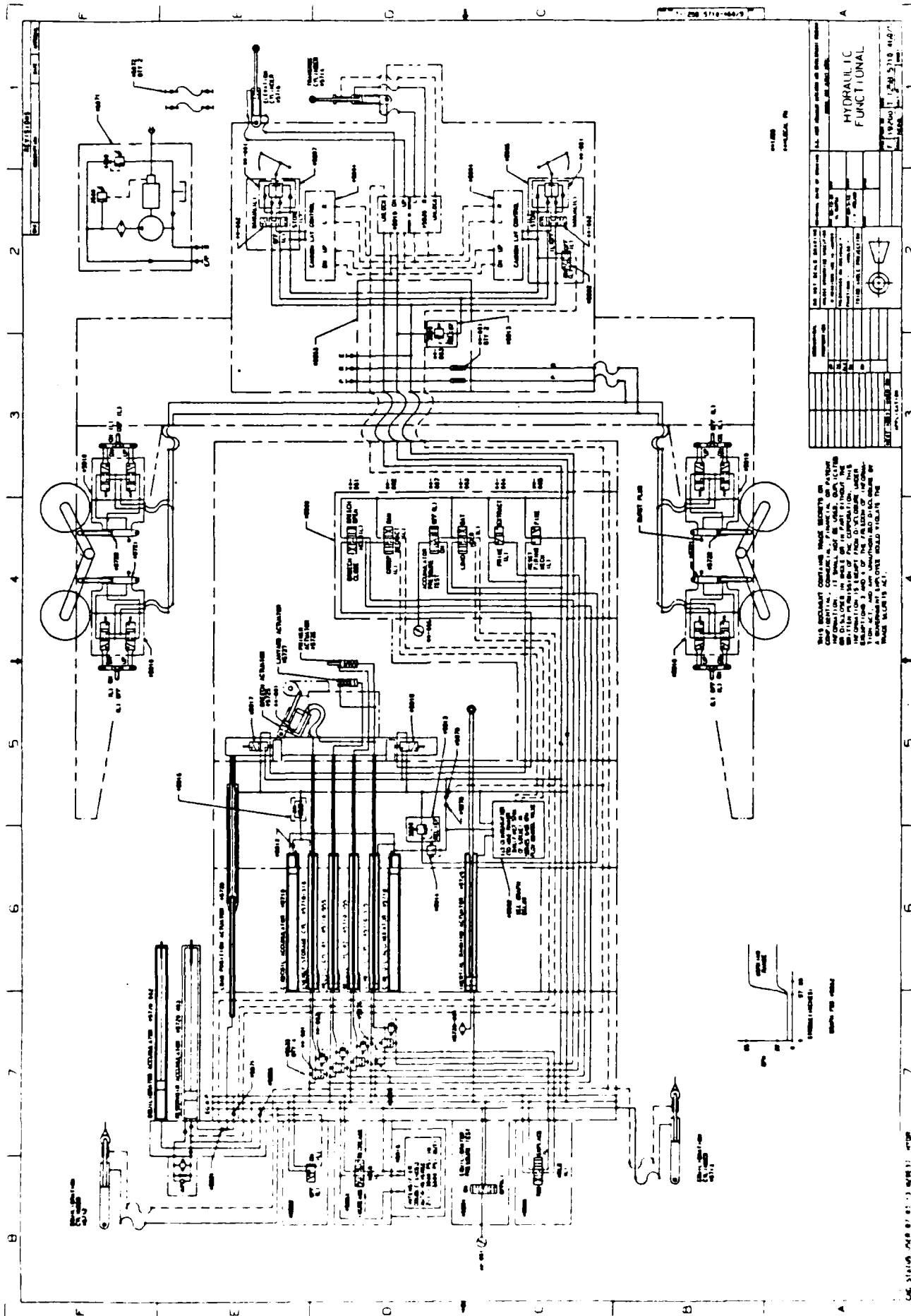
PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

FIRE CONTROL AND OPTICS

SIZE	FSCM NO.	T-1258	5710-400/A
B	19200		
SCALE	UNIT WT.		SHEET 4 OF 4



DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-1-27	
TOLERANCES ON DECIMALS *		DRAFTSMAN	CHECKER
FRACTIONS *		R. LARSEN	ENGR
THIRD ANGLE PROJECTION		ENGR	ENGR
			
MECHANICAL PROPERTIES			
YP			
TS			
ELZ			
RA			
BH			
RH			
APPLICATION			
NEXT ASSY	USED ON		



REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

LUID
 NITROGEN
 HYDRAULIC PUMP
 Fluid Pump / Filter Unit

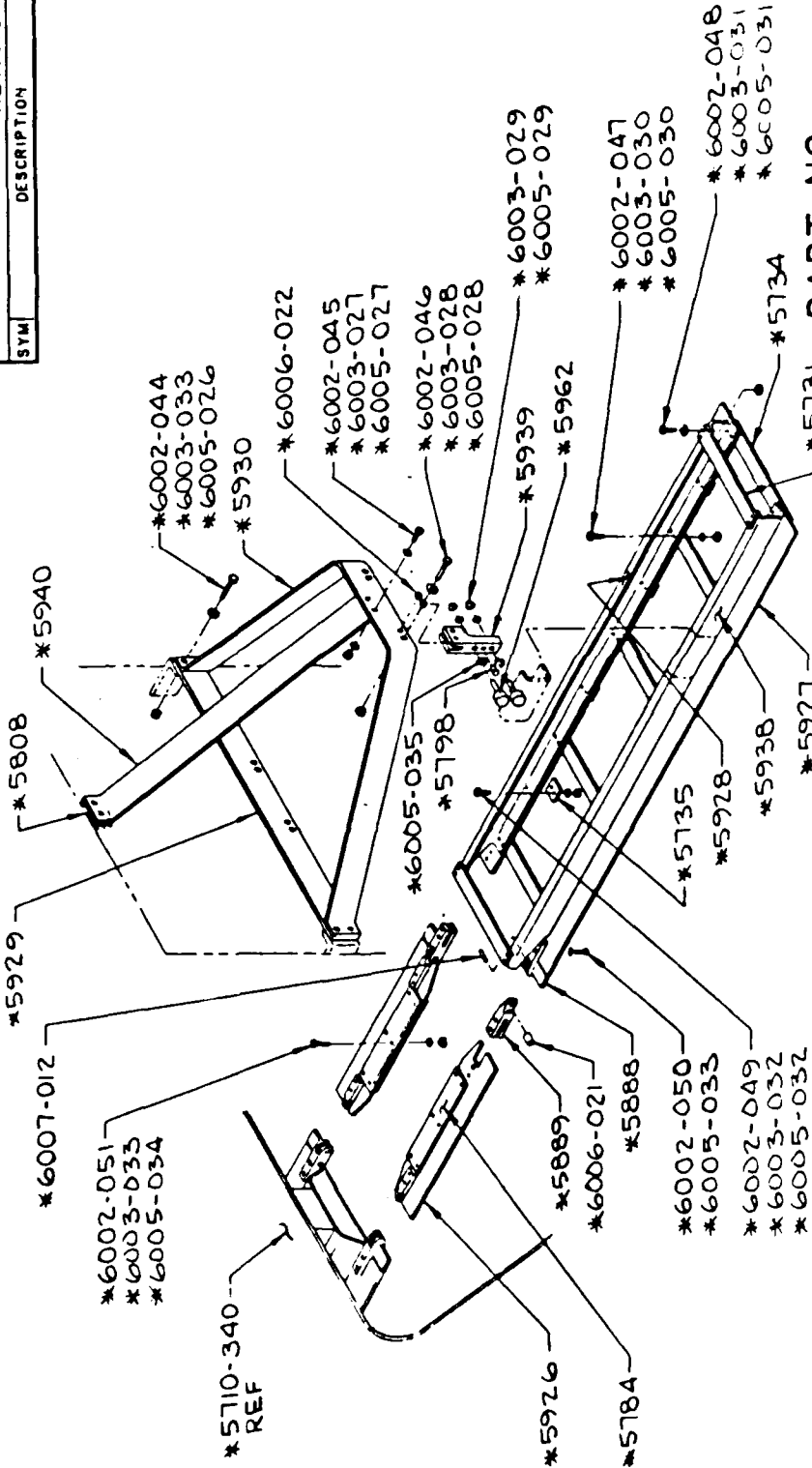
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
		87-1-27	
HYDRAULIC SYSTEM START-UP / CHECKOUT		DRAFTSMAN	CHECKER
		B. ANDERSON	ENGR
		ENGR	ENGR
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
THIRD ANGLE PROJECTION 			
MECHANICAL PROPERTIES YP TS EL2 RA BH RM		NEXT ASSY USED ON APPLICATION	
SIZE B 19200		FSCM NO. T-1258 5710-470 / A	
SCALE --		UNIT WT. --	
SHEET 1 of 1		SHEET 1 of 1	

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION	DATE	APPROVAL
PART NO.			
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		LOAD TRAY ASSY.	
ORIGINAL DATE OF DRAWING 87-2-12		DRAFTSMAN M. RUMPSA	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHECKER ENGR	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		APPLICATION	
YP TS EL2 RA BH RM		NEXT ASSY USED ON	
SCALE B 19200		UNIT WT. T-1258 5710-475/B	
SIZE B 19200		SHEET 2 OF 4	

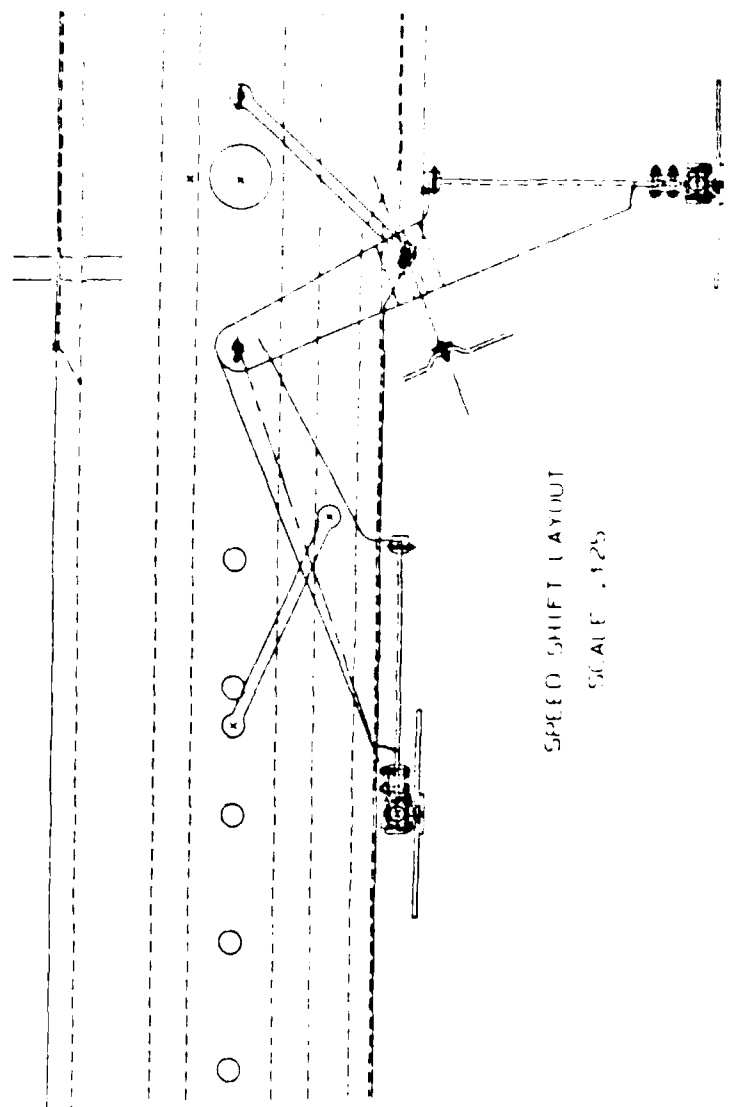
SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

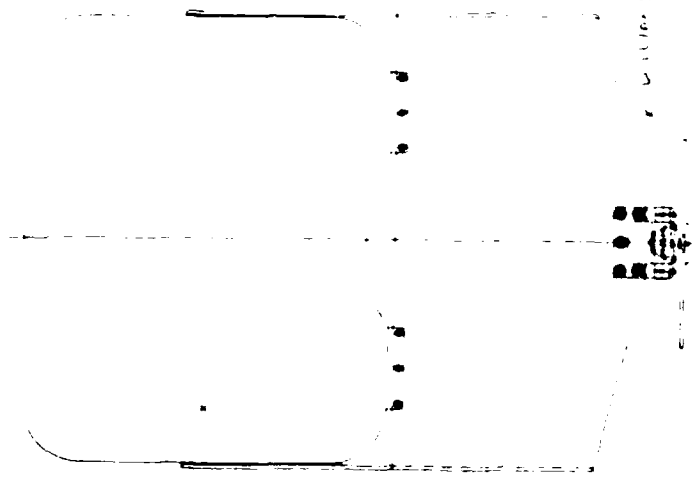


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		LOAD TRAY ASSY.	
SIZE B	FCM NO 19200	SCALE	UNIT WT. T-1258 5710-475/A
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 87-2-18	
MECHANICAL PROPERTIES		DRAFTSMAN M. KUMPSA	
YP		ENGR	CHECKER
TS		ENGR	
EL2		ENGR	
RA		ENGR	
BH		ENGR	
RH		ENGR	
THIRD ANGLE PROJECTION			
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &			
NEXT ASSY		USED ON	
APPLICATION			



SPEED SHIFT LAYOUT
SCALE .125



SPEEDSHIFT ASSEMBLY
T-12505710-875 (M.F.A.)

AD-A183 997

LIGHTWEIGHT TOWED HOWITZER DEMONSTRATOR PHASE 1 AND
PARTIAL PHASE 2 VOLUM (U) FMC CORP MINNEAPOLIS MINN
NORTHERN ORDNANCE DIV R RATHE ET AL APR 87

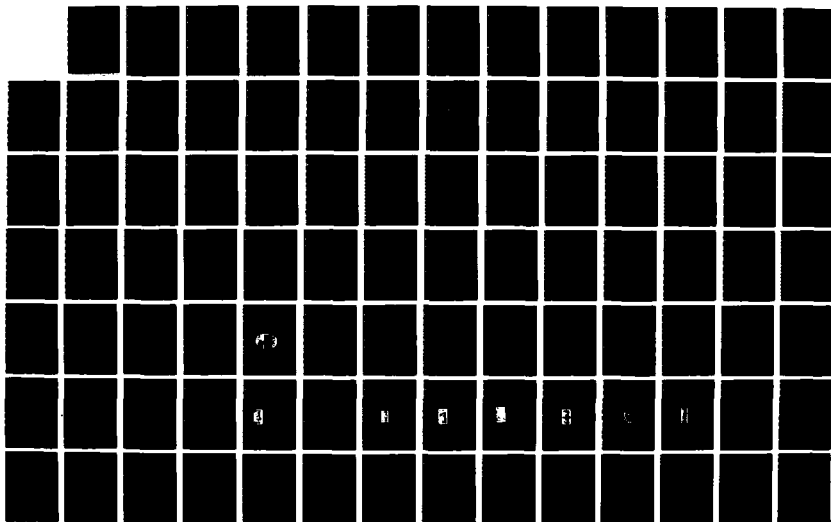
2/5

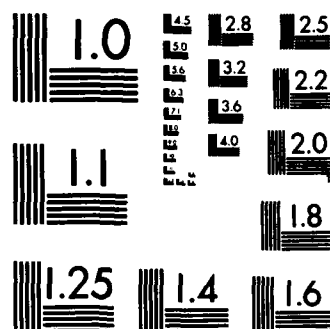
UNCLASSIFIED

FMC-E-3841-VOL-G DAAA21-86-C-0047

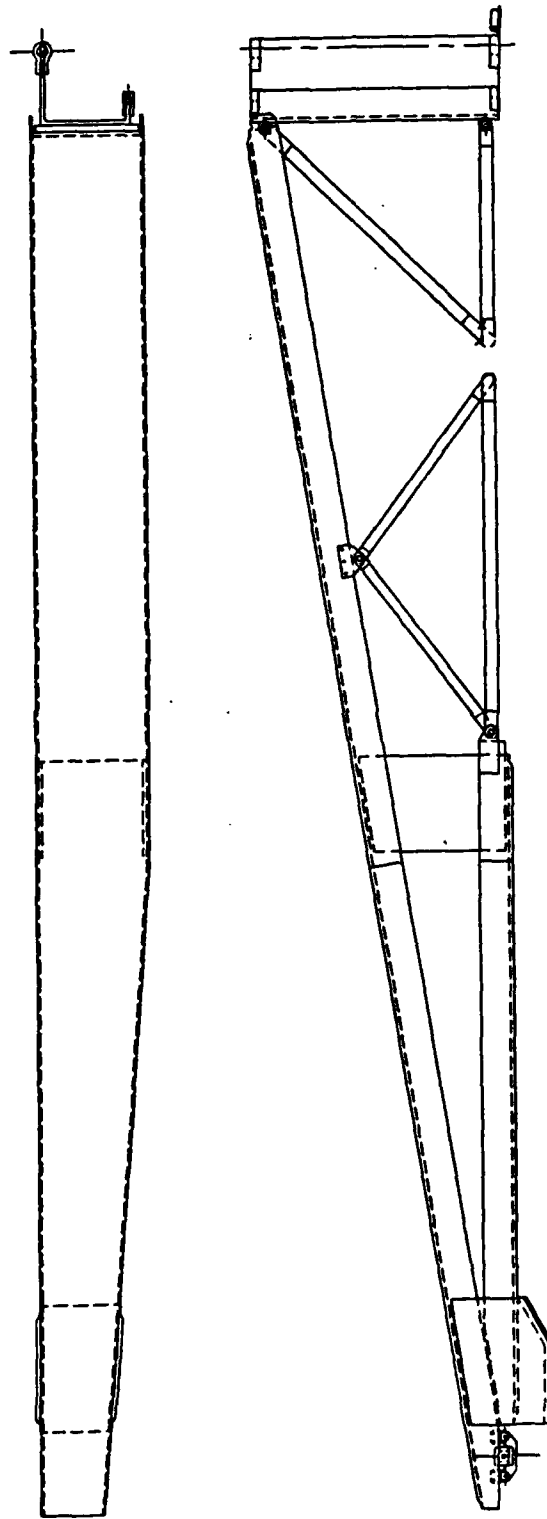
F/G 19/6

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



TRAIL LAYOUT
K. WILLIAMS

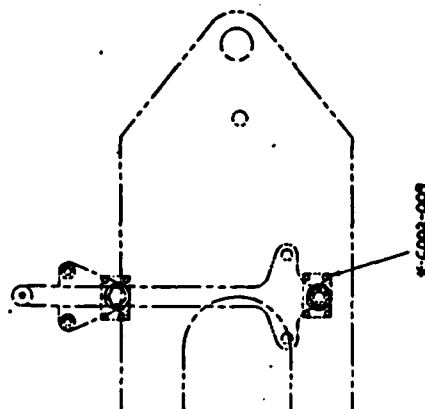
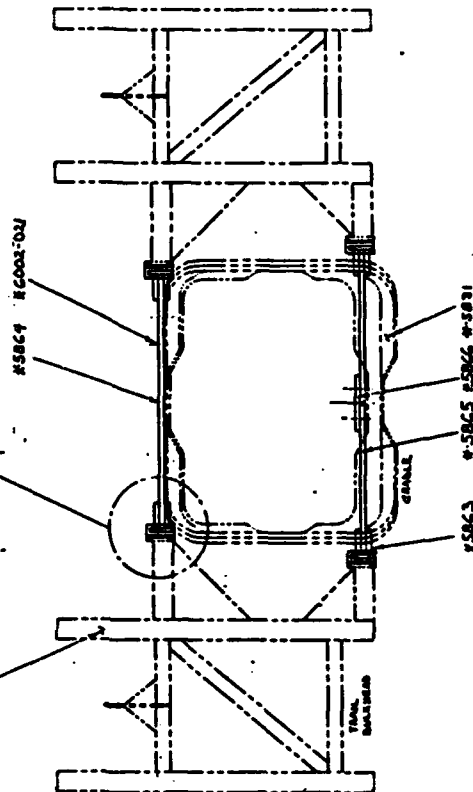
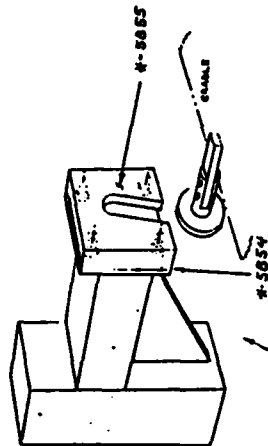
TRAIL ASSEMBLY
T-125B5710-595
(SMT 5)

[illegible]

1

REVISION

PRELIMINARY



PART NO. LJT

9-1, about
several students, or volunteer and engineering classes

W-1258

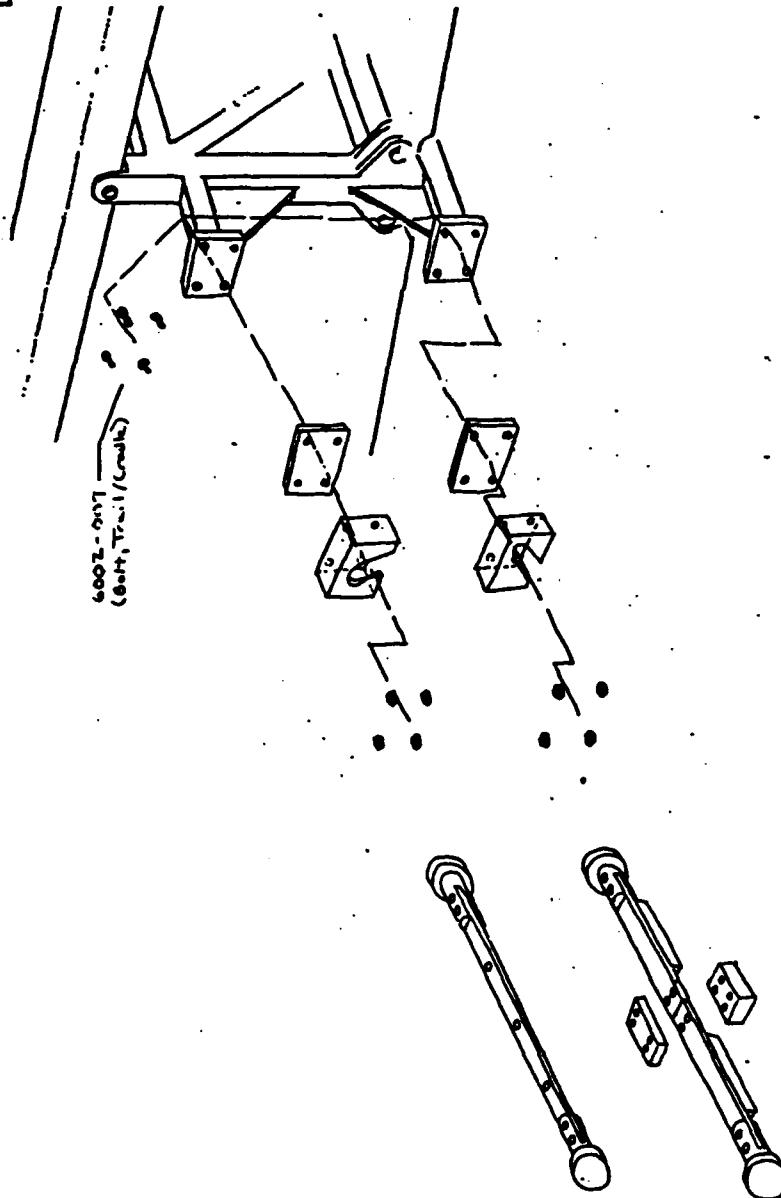
~~TRAIL ASSEMBLY TO~~
~~GRADUATE TO TRAIL~~

SYSTEM TOTAL
-595

File No.	T-5710- 6889 / A
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1

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



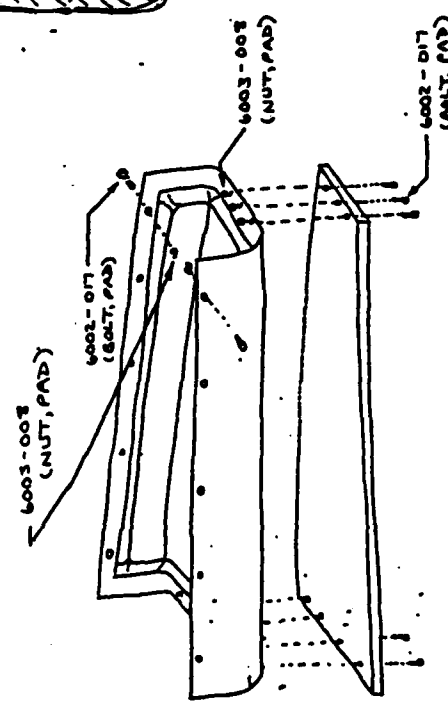
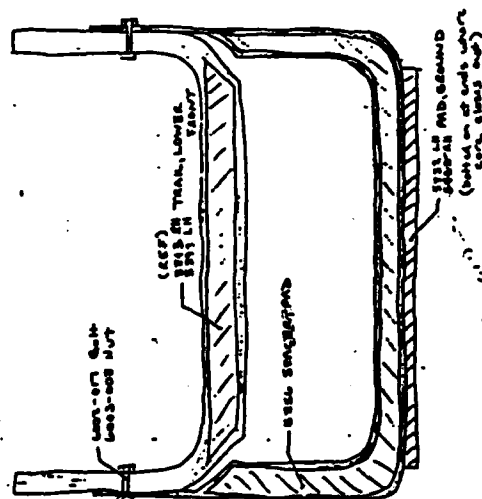
REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

[illegible]

PART NO.

[illegible]

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07803-9001

TRAIL SUBASSEMBLY

SIZE FSCM NO.
B 19200
SCALE — UNIT WT. — SHEET 4 of 4

ORIGINAL DATE OF DRAWING	
87-1-27	
DRAFTSMAN	CHECKER
C. ANDERSON	ENGR
ENGR	ENGR

DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS & ANGLES &	
FRACTIONS &	ANGLES &
THIRD ANGLE PROJECTION	

MECHANICAL PROPERTIES	
YP	
TS	
EL2	
HA	
BH	
RH	
APPLICATION	
NEXT ASSY	USED ON

Technical drawing of a mechanical assembly, likely a propeller or fan, showing a top view with a central hub, radial blades, and a circular outer rim. The drawing includes detailed cross-sections of the blades and the hub, showing internal components like bolts and structural details. A large circular arc is drawn around the central assembly, possibly indicating a clearance or a specific dimension. The drawing is labeled "PART NO." on the right side.

[illegible]

SMCAR FORM 88, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,

DRAWING SIZE 8

REVISIONS		DATE		APPROVAL					
SYM	DESCRIPTION								
						<p align="center">PART NO.</p>			
								U.S. ARMY	
								ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
								DOVER, NEW JERSEY 07801-8001	
								WHEELS AND AXLES, WALKING BEAM	
								SIZE	FSCM NO.
								B	19200
								SCALE	UNIT WT.
									—
									SHEET 2 OF 2

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-1-27	
TOLERANCES ON DECIMALS & ANGLES &		DRAFTSMAN	CHECKER
FRACTIONS &		D. GIBBLE IV	ENGR
THIRD ANGLE PROJECTION		ENGR	ENGR
MECHANICAL PROPERTIES			
YP			
TS			
EL2			
RA			
BH			
RH			
APPLICATION			
NEXT ASSY	USED ON		

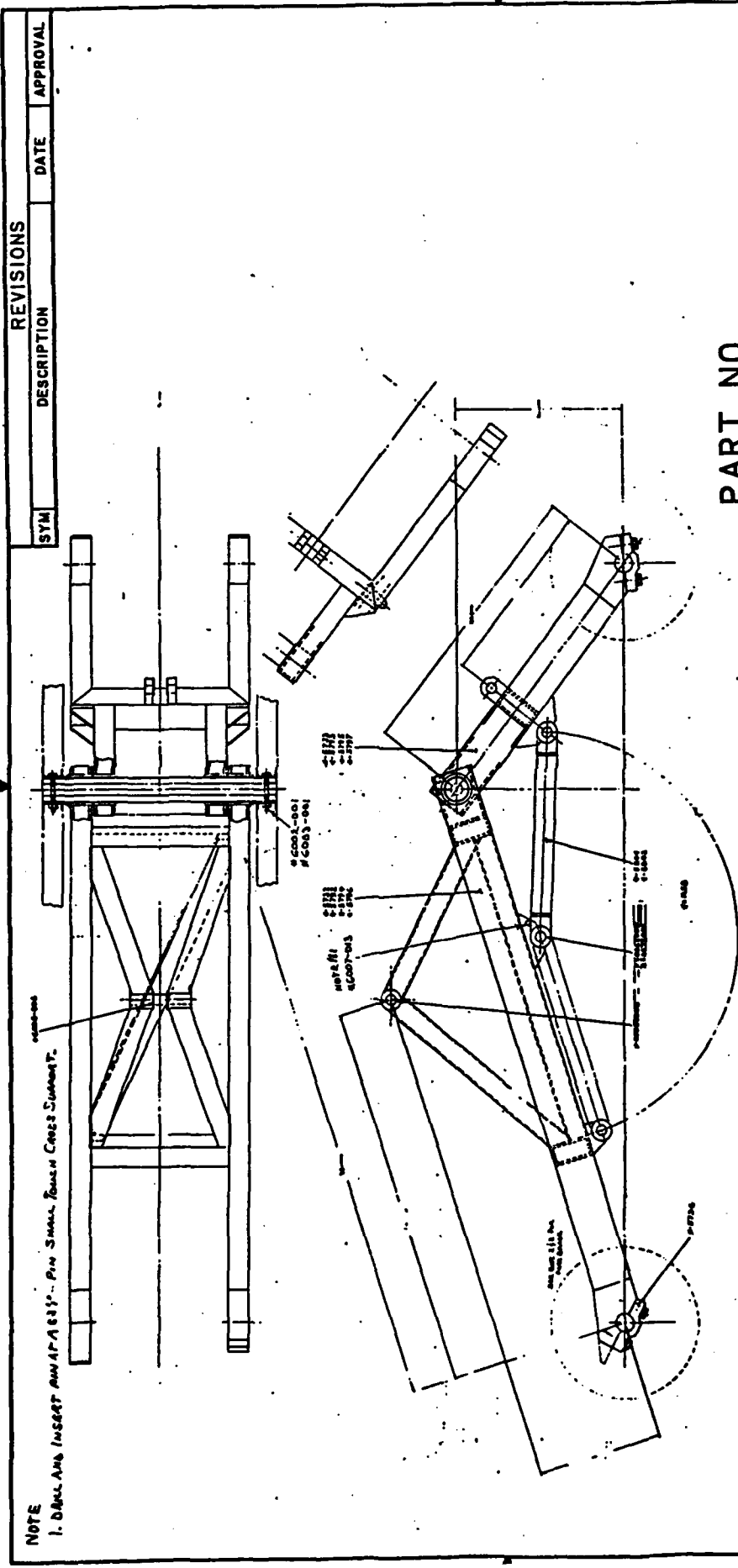
SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

DRAWING SIZE B

NOTE

1. BALL AND INSERT ANVILS ARE FOR SMALL BEAM CROSS SECTION.

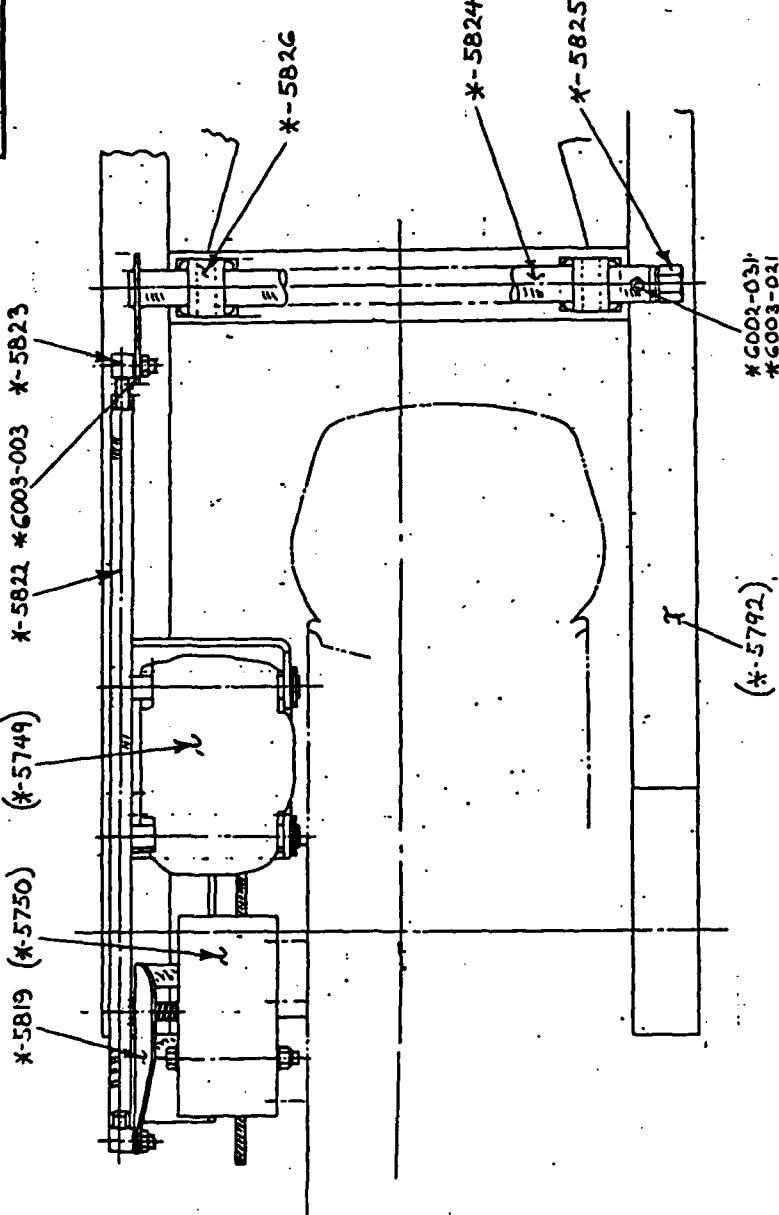
SYM	DESCRIPTION	DATE	APPROVAL




PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		WALKING BEAMS		FSCN NO. B 19200		T-12505710-650/8	
ORIGINAL DATE OF DRAWING 87-1-27		CHECKER D. Boudreau		SIZE B		SCALE 1/4"	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS ± FRACTIONS ± THIRD ANGLE PROJECTION		UNIT WT. —		SHEET 1 OF 4	
MECHANICAL PROPERTIES		TOLERANCES ON DECIMALS ± FRACTIONS ± THIRD ANGLE PROJECTION		UNIT WT. —		SHEET 1 OF 4	
YP	TS	EL2	RA	BH	RH	APPLICATION	
						NEXT ASSY USED ON	

REVISIONS			DATE	APPROVAL
SYM	DESCRIPTION			


$$* = 1258$$

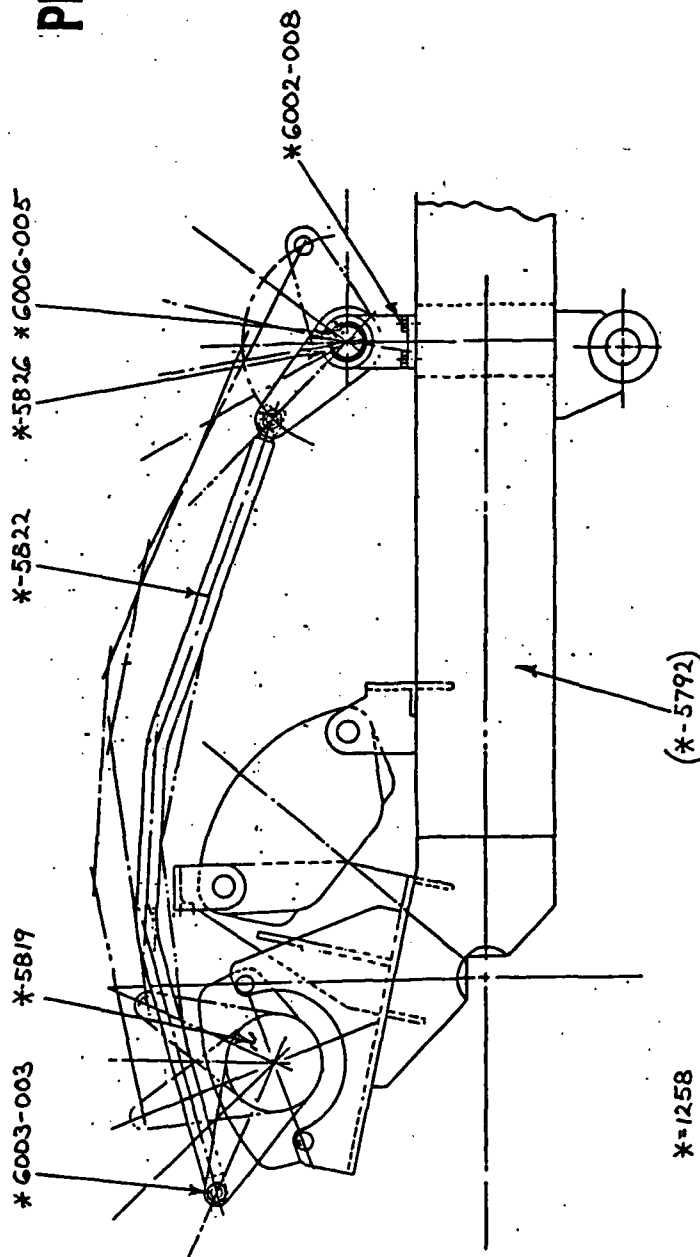
PART NO.

		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-5-87		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-6001	
		YP		TOLERANCES ON DECIMALS *	DRAFTSMAN	CHECK...			
		TS		FRACTIONS *	BA Boudreau	ENGR			
		EL2		ANGLES *	ENGR	ENGR			
		RA		THIRD ANGLE PROJECTION	ENGR	ENGR			
		BH							
		RH							
NEXT ASSY	USED ON							SIZE	FSCM NO.
								B	19200
APPLICATION								T-5710-650 / B	
								SCALE	UNIT WT.
									SHEET 2 OF 4

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

PRELIMINARY

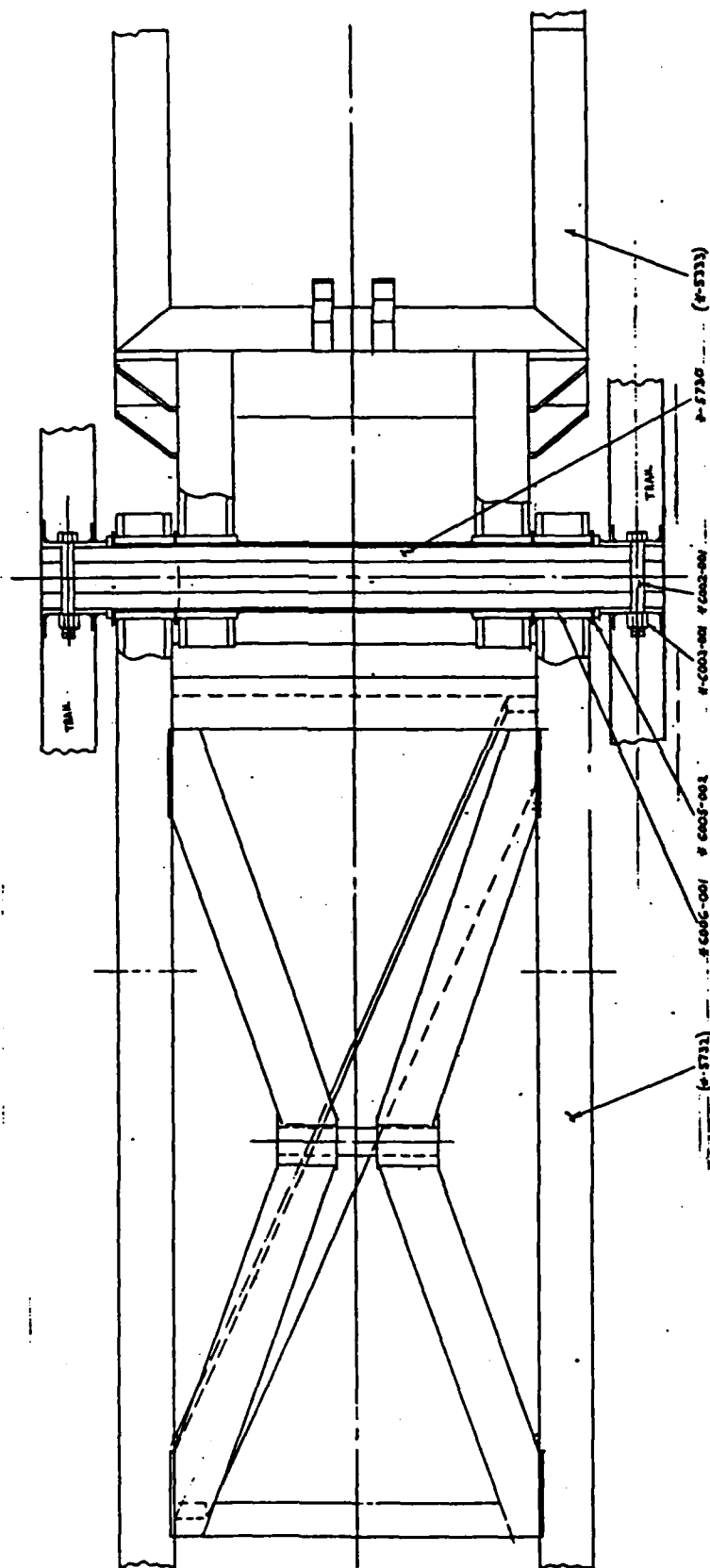


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 1-5-87		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
PARK BRAKE ASSY. - WALKING BEAMS		DRAFTSMAN D.A. GOUNDARD ENGR		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		YP TS EL2 RA BH RH		NEXT ASSY USED ON	
FSCM NO. B 19200		CHECKER ENGR		THIRD ANGLE PROJECTION					
SIZE B		ENGR		THIRD ANGLE PROJECTION					
SCALE		ENGR		THIRD ANGLE PROJECTION					
UNIT WT.		ENGR		THIRD ANGLE PROJECTION					
T-5710-650/B		ENGR		THIRD ANGLE PROJECTION					
SHEET 3 OF 4		ENGR		THIRD ANGLE PROJECTION					

SMCAR FORM 86, 1 JUN 86 (TEMP) REPLACES ARRADCOM FORM 86, AUG 77.

7149649	24 00	00014000	PA
REVISIONS			



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DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE

POUNDS

20

PAINT

30

SIGMA

15

TEMP INDICATOR FOR BARREL

12

COVER EQUILIBRATION

35

322 CARRIER

112 TOTAL

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001		ORIGINAL DATE OF DRAWING 87-1-27	
		DRAFTSMAN G. AMELIA ENGR	
CHECKER ENGR		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
ENGR		THIRD ANGLE PROJECTION	
ENGR			
MECHANICAL PROPERTIES		APPLICATION	
YP		NEXT ASSY	
TS		USED ON	
EL2			
RA			
BH			
RH			
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001		WEIGHTS NOT INCLUDED IN LTWD	
SIZE B 19200		FSCM NO. T-1258 5710-750/B	
SCALE - UNIT WT.		SHEET 1 OF 1	

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE FOUND WITHIN DRAWING

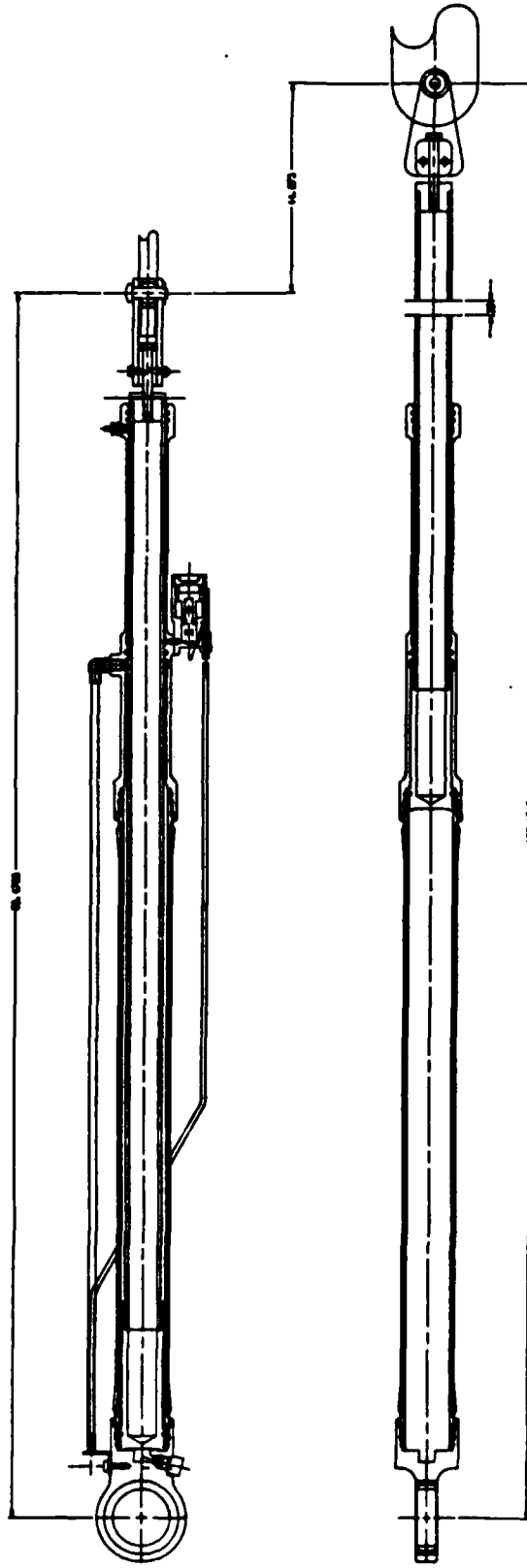
SYN		REVISIONS		DATE		APPROVAL	
DESCRIPTION		DATE		DATE		APPROVAL	
<p>Environmental Requirements</p> <p>a. Operating Temperature - Operating temperature conditions consist of exposure to any ambient air temperature within the range of -25 degree F to +160 degree F for up to eight hour durations. Specified temperature limits include the effects of vaporization kit heating, solar radiation and internally generated heat.</p> <p>b. Storage Temperature - Storage temperature conditions consist of exposure to ambient air temperature within the range of -70 degree F to +160 degree F for extended durations.</p> <p>c. Humidity - Humidity conditions consist of ambient relative humidity up to 95% per MIL-STD-810D Procedure 11.</p> <p>d. Shock - Equipment must be able to operate in the sustained high shock and vibration environment associated with the travel of a towed vehicle. The exact shock and vibration requirements are not known but MIL-STD-810D, method 514.2 can be used as a guide.</p> <p>e. Vibration - Vibration conditions consist of imposing sinusoidal vibrations of 0.40 inch double amplitude from 1 to 14 Hz and 4g from 14Hz to 500 Hz at the component mounting interfaces. Vibration frequency will be imposed at a logarithmic sweep rate of 20 minutes per sweep cycle (from 5 to 500 to 5 Hz) followed by 20 minute dwells at each resonant frequency (maximum of four frequencies). Total vibration time including dwells shall be 120 minutes. Use MIL-STD-810D as a guide.</p> <p>f. Chemicals - Chemical conditions consist of exposure to the vapors of or the contact with the following materials for durations up to 48 hours.</p> <p>1. Fuel per VV-F-800, MIL-T-5624, 1 MIL-G-3056, and MIL-F-16884.</p> <p>2. Hydraulic Fluid per Standard Fire Retardant Spec. MIL-STD-6083D.</p> <p>3. Clean Agents per P-C-437.</p>							
<p>Environmental Requirements</p> <p>g. Cleaning Spray - Cleaning spray conditions consist of water jet spraying. The jet spray is applied perpendicular to the surface being cleaned at a distance of not less than one foot from the surface.</p> <p>h. Dust - MIL-STD-810D, Method 510, Procedure 1.</p> <p>i. Temperature Shock - MIL-STD-810D, Method 503.</p> <p>j. Waterproofness - MIL-STD-810D, Method 512.2.</p> <p>k. FIRE RETARDENCY.</p>							
<p>Environmental Requirements</p> <p>g. Cleaning Spray - Cleaning spray conditions consist of water jet spraying. The jet spray is applied perpendicular to the surface being cleaned at a distance of not less than one foot from the surface.</p> <p>h. Dust - MIL-STD-810D, Method 510, Procedure 1.</p> <p>i. Temperature Shock - MIL-STD-810D, Method 503.</p> <p>j. Waterproofness - MIL-STD-810D, Method 512.2.</p> <p>k. FIRE RETARDENCY.</p>							

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-6001	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN C. S. A. C. O.	CHECKER	ENVIRONMENTAL REQUIREMENTS	
TS		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		ENGR	ENGR		
EL2		THIRD ANGLE PROJECTION		ENGR	ENGR		
RA							
BH							
RH							
NEXT ASSY		USED ON				SIZE FSCM NO. B 19200 T-12585711 / A	
APPLICATION						SCALE - UNIT WT. - SHEET 1 of 1	

[illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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NOTES:

1. OPERATING CYCLE: 1000000 CYCLES PER YEAR.
2. MATERIAL: ALUMINUM.
3. DIMENSIONS: 14.875 IN. DIA. X 14.875 IN. L.
4. ACTUATOR: 14.875 IN. DIA. X 14.875 IN. L.
5. WEIGHT: 14.875 LBS.
6. PRICE: 14.875 DOLLARS.
7. DATE: 14.875.
8. DRAWN BY: 14.875.
9. CHECKED BY: 14.875.
10. APPROVED BY: 14.875.

YORK INDUSTRIES INC.	
ACTUATOR, BEAR-LOC	
EQUILIBRATION	
P/N 1-1228 3712/0 & 1-1228 3713/0	
Q 81616	01 60356
17/4	0 14000

(70306) (70306)

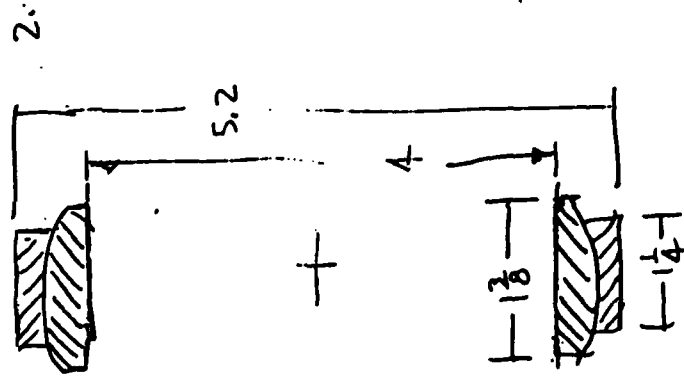
→ Tachometer? Bearing by York

FACET PART END CAPS
USE SHOULDER
LOCITE

A. CARREUSOL

4" BORE

$\frac{3.9992}{3.9984}$ SHAFT
SEALED



EQUIL ACTUATOR
ON END

2 1/2" SEALS (3" diam)

4" ID

5.2" OD

1 7/8" WIDE INNER RING

1 1/4" WIDE OUTER RING

LT 3-5 MONTHS

20,000 RPM

40,000 STATIC SHOCK

CPE SHAFT (W/ ELECTRONICS NICKEL PLATE INNER RING)

HSG IS ALUMINUM (W/ ON PLATE OUTER RING)

W/ LOOK AT T: FOR BAL.

RMT ANALYZER
ACTUATOR - EQUILIBRATION
RIGHT (+ LEFT)
BEARING

T-12585712 SMT 2 OF 2



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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2

02 60156

1. OPERATING MEDIA: HYDRAULIC FLUID PER MIL-H-8800, IN THERMOL 50 80-111.
2. PRESSURES: GAS CHARGE - 3000 PSIG
HYDRAULIC - 1500 PSIG
MIL. OPERATING - 7500 PSIG
PRESS. - 11250 PSIG
BURST - 30000 PSIG
3. TEMPERATURE: NON-OPERATING - MINUS 70 TO 100°F
OPERATING - MINUS 25 TO 100°F
MIL. FLUID - 275°F
4. VOLUME: GAS - 2250 CU. IN. MIN.
FLUID: 100 CFI

NOTES:

1. OPERATING MEDIA: HYDRAULIC FLUID PER MIL-H-8080. NITROGEN PER MIL-H-411.
2. PRESSURES: GAS CHARGE : 2000 PSIG WORKING : 1500 PSIG MAX. OPERATING : 7500 PSIG PROOF : 11250 PSIG BURST : 20000 PSIG
3. TEMPERATURE: NON-OPERATING : MINUS 70 TO 180° F OPERATING : MINUS 25 TO 180° F MAX. FLUID : 275° F
4. VOLUME: GAS - 2250 CU. IN. MIN. FLUORATE: 100 GPH

REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
1	1	10	10	10	10	10	10

REV.		DATE		BY		DESCRIPTION	
1	1	10	10	10	10	10	10

REV.		DATE		BY		DESCRIPTION	
1	1	10	10	10	10	10	10

REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
1	1	10	10	10	10	10	10

REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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REV.		DATE		BY		DESCRIPTION	
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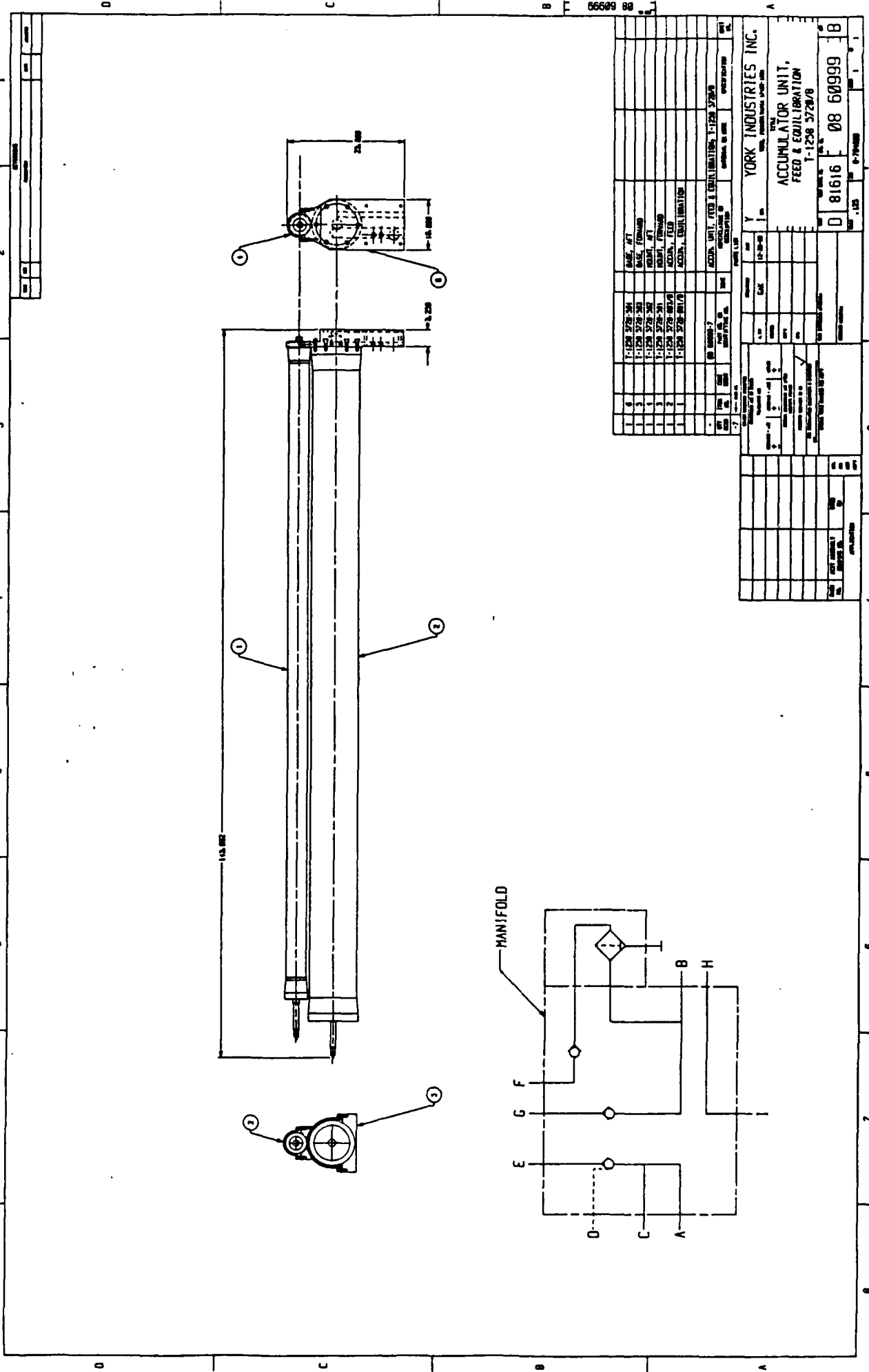
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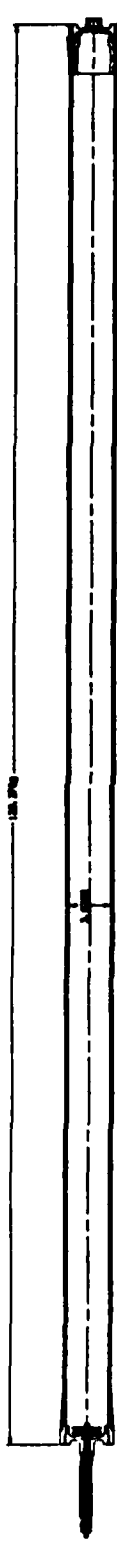

REV.		DATE		BY		DESCRIPTION	
1							





YORK INDUSTRIES INC.		ACCUMULATOR UNIT, FEED & EQUILIBRATION		1-1250 5720/8	
D 81616		08 60999		B	
1-1250 5720-341		BASE, M/T		1-1250 5720-341	
1-1250 5720-342		BASE, FERNALD		1-1250 5720-342	
1-1250 5720-343		ROD, M/T		1-1250 5720-343	
1-1250 5720-344		ROD, FERNALD		1-1250 5720-344	
1-1250 5720-345		ACCU, FLD		1-1250 5720-345	
1-1250 5720-346		ACCU, EQUILIBRATION		1-1250 5720-346	
1-1250 5720-347		ACCU, FLD		1-1250 5720-347	
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1-1250 5720-398		ACCU, EQUILIBRATION		1-1250 5720-398	
1-1250 5720-399		ACCU, FLD		1-1250 5720-399	
1-1250 5720-400		ACCU, EQUILIBRATION		1-1250 5720-400	

1. OPERATING MEDIA:	HYDRAULIC FLUID PER MIL-H-8882, NITROGEN PER MIL-H-111.
2. PRESSURE:	GAS CHARGE - 2700 PSIG MORNING - 5000 PSIG NAIL OPERATING - 6830 PSIG PROOF - 6845 PSIG BURST - 13075 PSIG
3. TEMPERATURE:	NON-OPERATING - MINUS 78 TO 100° F OPERATING - MINUS 23 TO 100° F
4. VOLUME:	GAS - 1200 CU. IN. N/A.
5. FLOWRATE:	28 GPM

[illegible]

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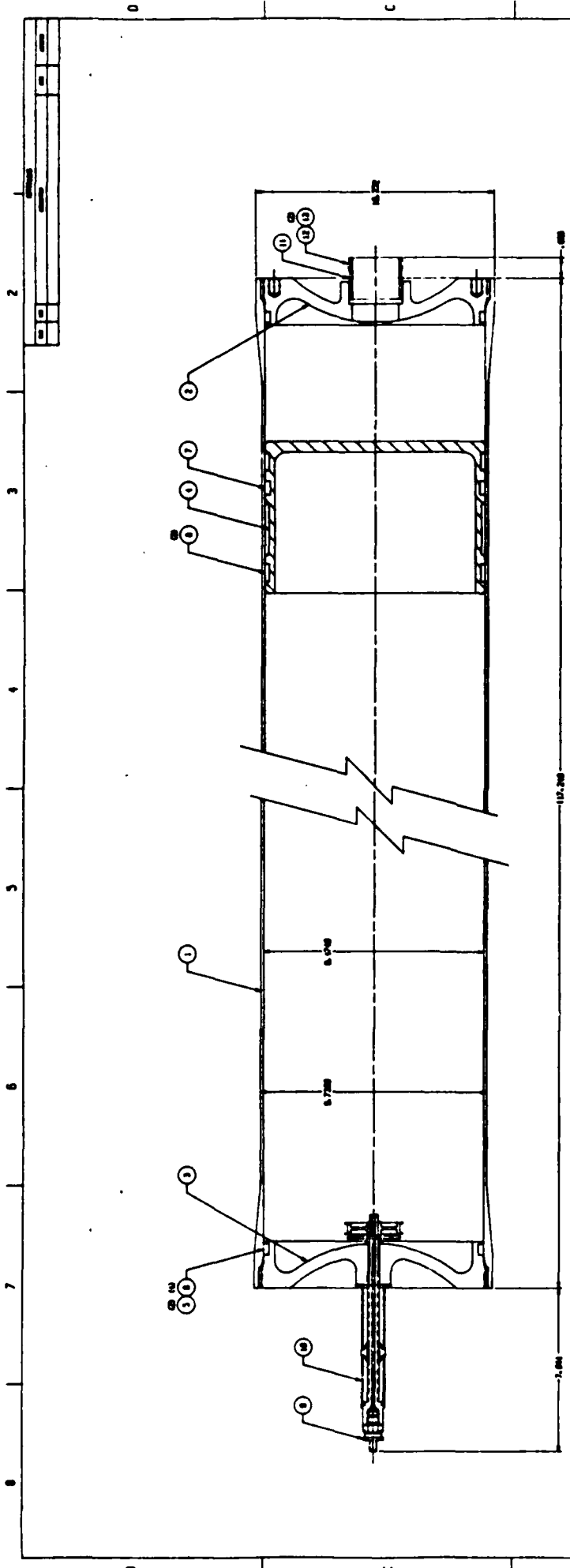
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YORK INDUSTRIES INC.
ACCUMULATOR, EQUILIBRATION
1-1258 3728-001/8

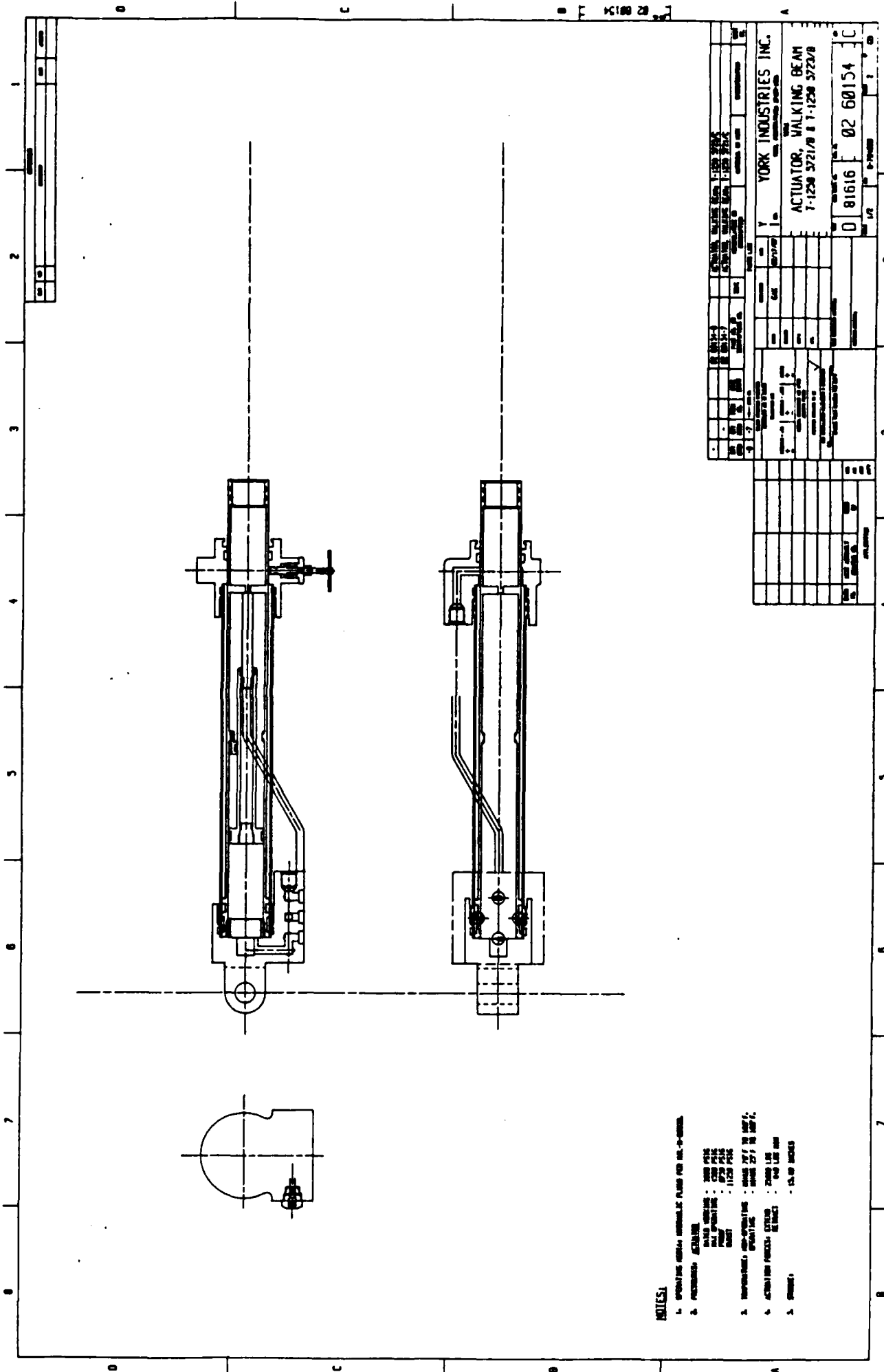
0 81616 08 60156 10

1. OPERATING MEDIA: HYDRAULIC FLUID FOR MIL + GROUND
HYDRAULIC FLUID FOR MIL + GROUND
2. PRESSURES: GAS CHARGE - 120 PSIG
WORKING - 200 PSIG
MILL OPERATING - 300 PSIG
PUMP - 340 PSIG
BOOST - 1400 PSIG
3. TEMPERATURE: MID-OPERATING - MINUS 70 TO 100°F
OPERATING - MINUS 25 TO 100°F
MILL FLUID - 200°F
4. VOLUME: GAS - 8000 CU. IN. MILK
FLUID: 150 GPM

YORK INDUSTRIES INC.		YORK, PENNSYLVANIA 17404-1001	
HYDRAULIC ACCUMULATOR, FEED		T-1250 5720-3/8	
C 81616		08 60150	
0-794000		1 0 2	



YORK INDUSTRIES INC.		1-1234 5678-345	
HYDRAULIC ACCUMULATOR		FEED	
1-1234 5678-345		1-1234 5678-345	
0 81616		08 60150	
D		D	

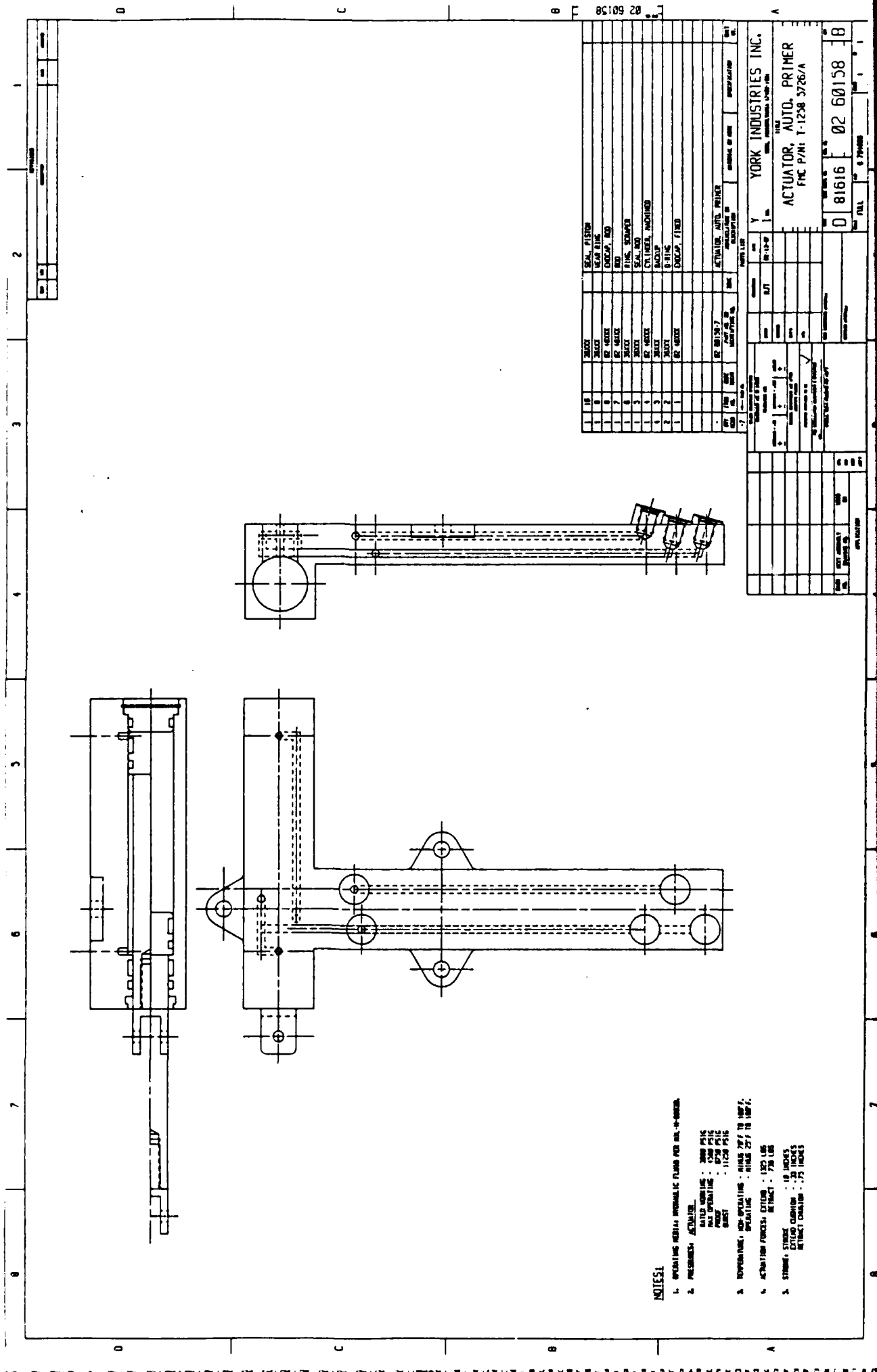


NOTES:

1. OPERATING MEDIA: HYDRAULIC FLUID PER MIL-S-55-0000.
2. PRECAUTIONS:
 - MAX. WORKING PRESSURE: 2000 PSI
 - MAX. OPERATING TEMPERATURE: 112°F
 - MAX. OPERATING SPEED: 1125 IN/SEC
3. DIMENSIONS:
 - MAXIMUM LENGTH: 15.00 INCHES
 - MAXIMUM DIAMETER: 1.50 INCHES
 - MAXIMUM WEIGHT: 1.50 LBS
4. ACTUATING FORCE: 100 LBS
5. OTHER:
 - 1.50 INCHES

YORK INDUSTRIES INC.	
ACTUATOR, WALKING BEAM	
T-1250 5721/8 & T-1250 5723/8	
Q 81616	02 60154
YORK INDUSTRIES INC. 1000 W. 10TH AVE. ST. LOUIS, MO. 63103 TEL. 314-241-1000 FAX 314-241-1001	

[illegible]

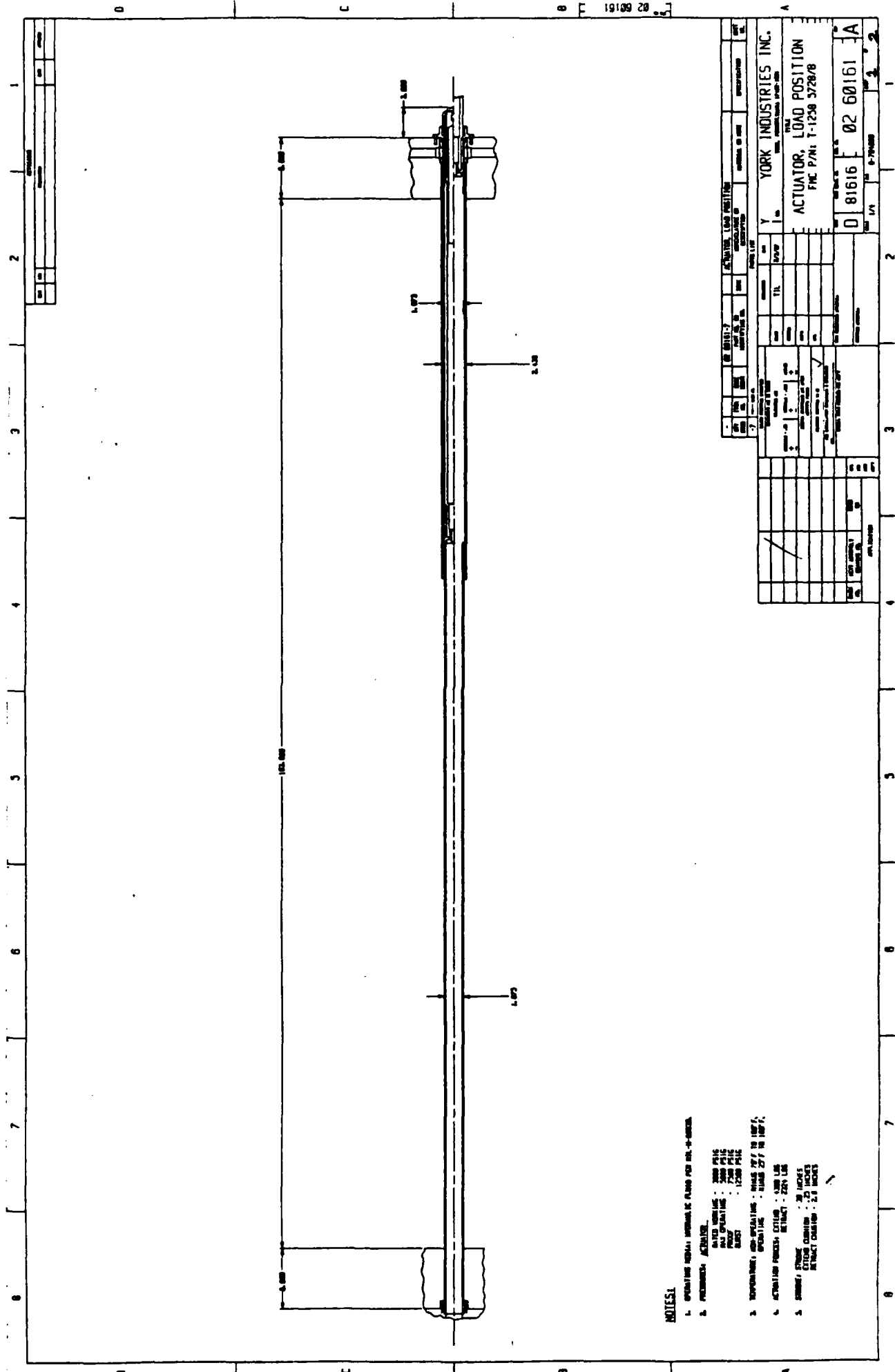


NOTES:

1. OPERATING MEDIA: HYDRAULIC FLUID PER MIL. SPECIFICATION
2. PRESSURES: ACTUATOR
RATED WORKING : 3000 PSIG
MAX. WORKING : 3500 PSIG
MAX. OPERATING : 3500 PSIG
BURST : 11250 PSIG
3. DIMENSIONS: MAX. OPERATING : 11250 PSIG
OPERATING : 11250 PSIG
MAX. WORKING : 3500 PSIG
MAX. OPERATING : 3500 PSIG
4. ACTUATOR FORCE: EXTEND : 1250 LBS
RETRACT : 750 LBS
5. STROKE: STROKE LENGTH : 18 INCHES
STROKE SPEED : 18 INCHES
RETRACT CHAMBER : 18 INCHES

ITEM NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	SEAL, PISTON	1	EA	
2	SEAL, ROD	1	EA	
3	DOCK, ROD	1	EA	
4	DOCK, ROD	1	EA	
5	SEAL, STRAP	1	EA	
6	SEAL, ROD	1	EA	
7	CYLINDER, MOUNTED	1	EA	
8	BACKUP	1	EA	
9	DOCK, ROD	1	EA	
10	DOCK, ROD	1	EA	
11	DOCK, ROD	1	EA	
12	DOCK, ROD	1	EA	
13	DOCK, ROD	1	EA	
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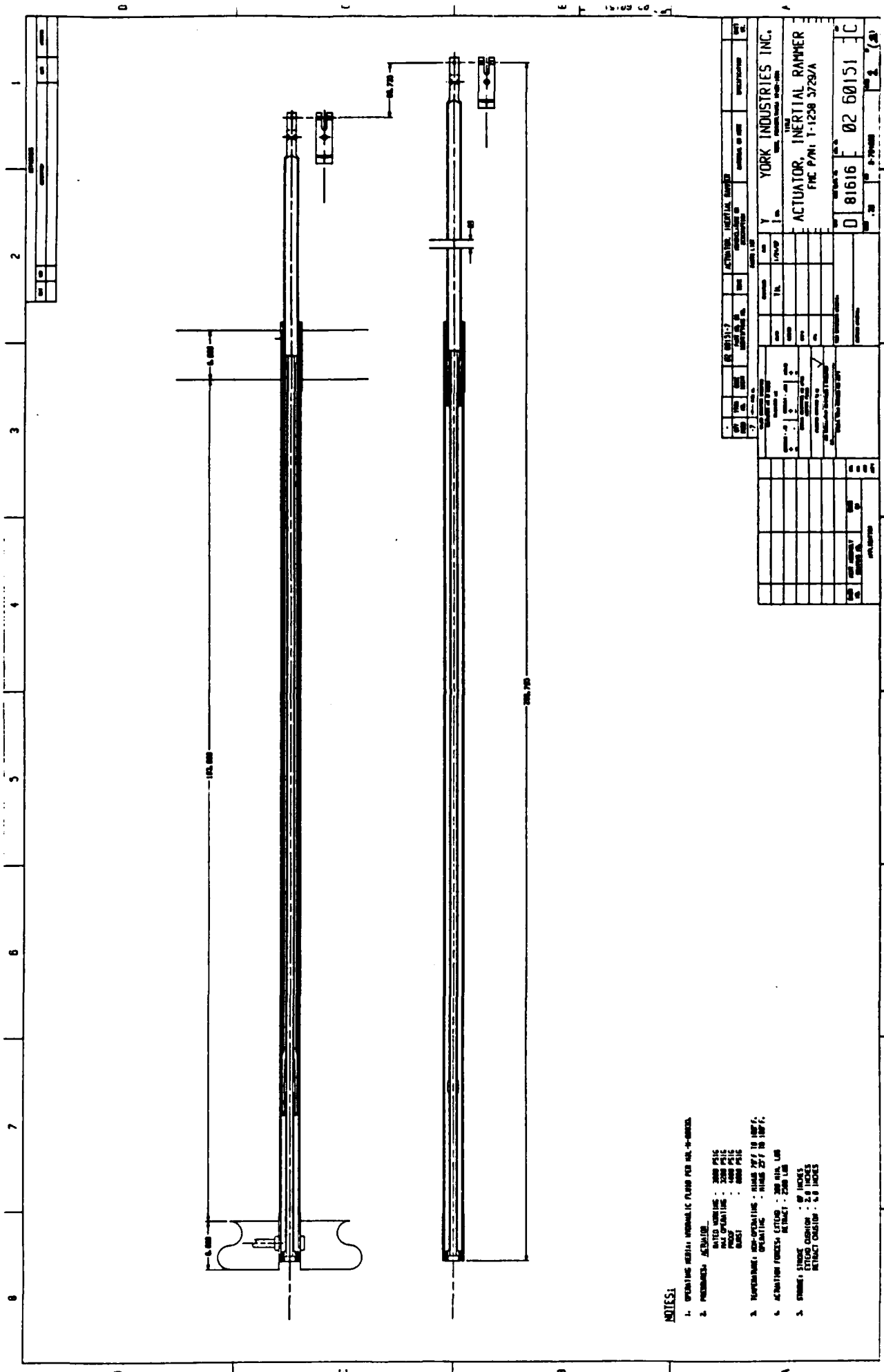
YORK INDUSTRIES INC.	
ACTUATOR, AUTO. PRIMER	
P/N: 1-1258 5726/A	
REV. 1	
DATE: 1-12-58	
BY: 81616	
02 60158	
B	



NOTES:

1. OPERATING MEDIA: HYDRAULIC FLUID PER MIL-8-6000.
2. PRELIMINARY: ACTUATOR.
 2.1.1. MATERIALS: 304 SS
 2.1.2. FINISH: POLISHED
 2.1.3. TOLERANCES: 1/16" FRACTIONAL
 2.1.4. SURFACE: 32 RMS
3. DIMENSIONS: 10.000" TOTAL LENGTH, 1.000" MOUNTING BRACKET, 1.000" ACTUATOR FLANGE.
4. ACTUATOR: 10.000" TOTAL LENGTH, 1.000" MOUNTING BRACKET, 1.000" ACTUATOR FLANGE.
5. OTHER: 10.000" TOTAL LENGTH, 1.000" MOUNTING BRACKET, 1.000" ACTUATOR FLANGE.

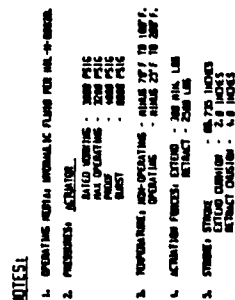
YORK INDUSTRIES INC.		ACTUATOR, LOAD POSITION	
P/N: 02 60161		P/N: 1-1250 3/28/8	
0 81616		02 60161	
1A		1A	



NOTES:

1. OPERATING MEDIA: HYDRAULIC FLUID FOR MIL-S-8000.
2. PERFORMANCE: ACTUATOR
 RATED WORKING : 3000 PSI
 MAX OPERATING : 3000 PSI
 PRESS : 3000 PSI
 WEIGHT : 3000 LBS
3. TEMPERATURE: NON-OPERATING : MINUS 20° F TO 100° F
 OPERATING : MINUS 20° F TO 100° F
4. ACTUATOR FORCES: EXTEND : 200 LBS, LBS
 RETRACT : 200 LBS, LBS
5. STROKE: SINGLE : 87 INCHES
 EXTEND CYCLE : 2.0 INCHES
 RETRACT CYCLE : 2.0 INCHES

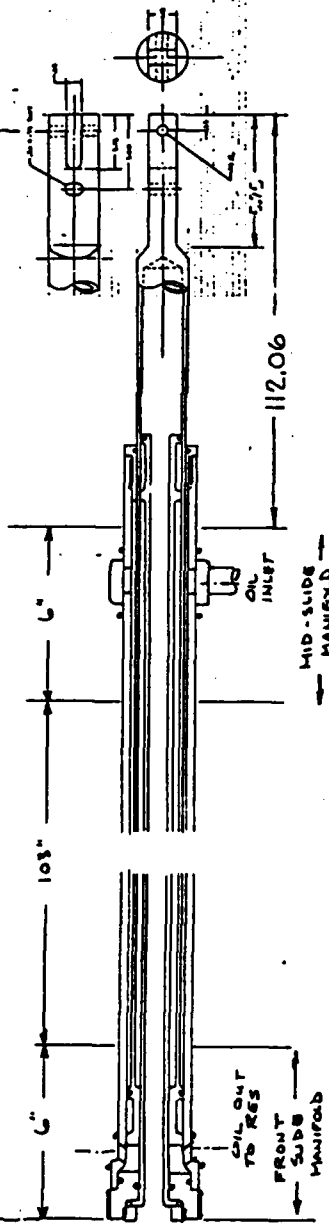
YORK INDUSTRIES INC.		YORK INDUSTRIES INC.	
ACTUATOR, INERTIAL RAMMER		ACTUATOR, INERTIAL RAMMER	
P/N: 1-1228 3720/A		P/N: 1-1228 3720/A	
D 81616		D 81616	
02 60151		02 60151	
C		C	



10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DRAWING SIZE D

226.43 EXTENDED
140.06 RETRACTED



RETRACT CUSHION: 4" (CONSTANT DECELERATION)
FROM 300 INCHES/SEC
EXTEND CUSHION: 2" (NO SPEC ON PROFILE)

CYL ID - 2.615
LEN - 2.000 (REF)
Piston OD - 2.000
ROD OD - 1.750
ID - 1.500

INERTIAL RAMMING
ACTUATOR

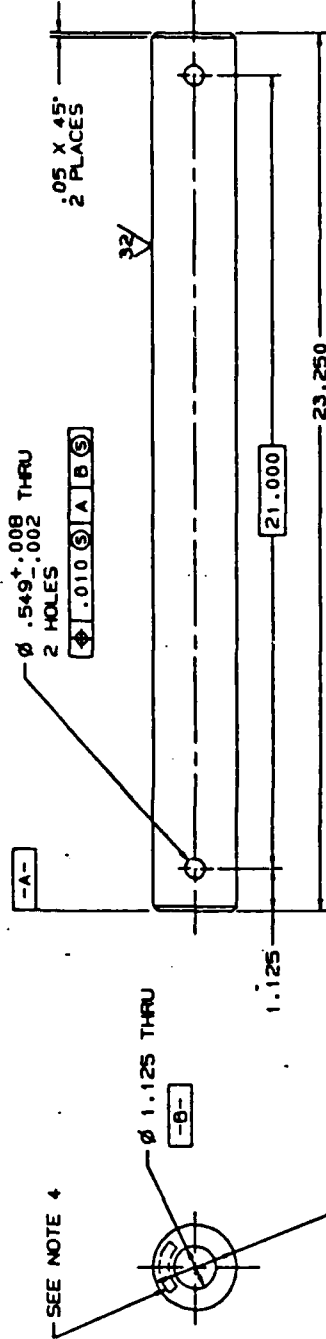
CALL DAVE WARWICK (612) 572-7628
OR
JEFF IRELAND (612) 572-7629
WITH QUESTIONS & COMMENTS

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
INERTIAL RAMMER, ACTUATOR	
SIZE B 19200	FSCM NO. T-1258 5729 / C
SCALE —	UNIT WT. —
SHEET 1 of 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 87-1-27
MECHANICAL PROPERTIES	DRAFTSMAN G. ANDERSON
YP	CHECKER
TS	ENGR
EL2	ENGR
RA	ENGR
BH	ENGR
RH	ENGR
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
THIRD ANGLE PROJECTION	
NEXT ASSY USED ON	
APPLICATION	

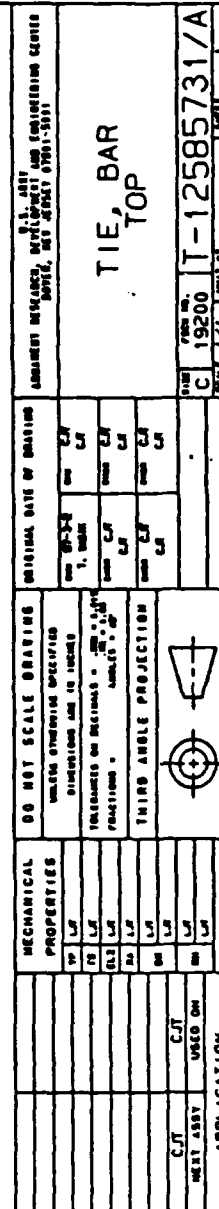
DRAWING SIZE C

1. EDGES .010-.030
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 250
4. STEEL STAMP "19200-T-12585730/A" AND MFR FSCM NUMBER PER MIL-STD-130 IN APPROX LOCATION SHOWN. CHARACTERS .12 APPROX
5. MATERIAL: TITANIUM, 6AL4V, AMS 4928, ANNEALED
6. T10012E



U.S. ARMY ARMY RESEARCH, DEVELOPMENT AND ENGINEERING CENTER FORT MONROE, VA 22034-6101		ORIGINAL DATE OF DRAWING DATE: 07-1-18 BY: C/J CHECKED: C/J APPROVED: C/J	
PIN, PIVOT		PART NO. T-12585730/A REV. 1/2	
MECHANICAL PROPERTIES TYP. TENSILE TYP. YIELD TYP. ELONG. TYP. REDUCED SECTION TYP. HARDNESS TYP. TEMPER TYP. CORROSION RESISTANCE TYP. FATIGUE TYP. CRACK GROWTH TYP. WELDABILITY TYP. MACHINABILITY TYP. FORMABILITY TYP. JOINABILITY TYP. PAINTABILITY TYP. COATABILITY TYP. ADHESION TYP. BONDING TYP. SOLDERABILITY TYP. WELDABILITY TYP. MIG WELDABILITY TYP. TIG WELDABILITY TYP. BUTT WELDABILITY TYP. BRAZING TYP. SOLDERING TYP. ADHESION TYP. BONDING TYP. SOLDERABILITY TYP. WELDABILITY TYP. MIG WELDABILITY TYP. TIG WELDABILITY TYP. BUTT WELDABILITY TYP. BRAZING TYP. SOLDERING		APPLICATION C/J USED ON MFG ASST	

- | | | | |
|------|-------------|------|----------|
| DATE | DESCRIPTION | DATE | APPROVAL |
|------|-------------|------|----------|

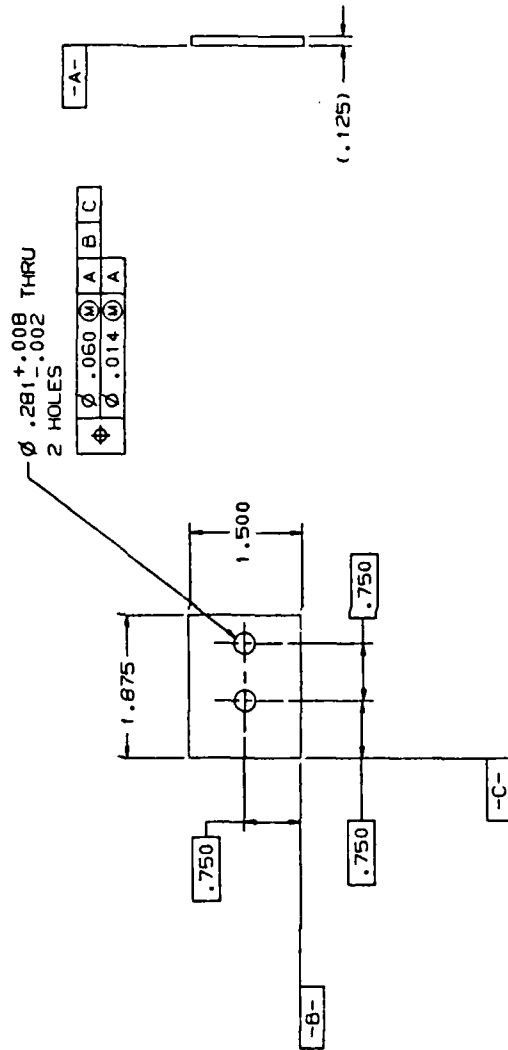



CAD STATUS USER 07/03/12 M20E94 LTHD4

4

REVISIONS			
SN	DESCRIPTION	DATE	APPROVAL

1. EDGES .005-.020
2. IDENTIFY AS " 12585735 "
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL:
COMPOSITE FIBER EPOXY

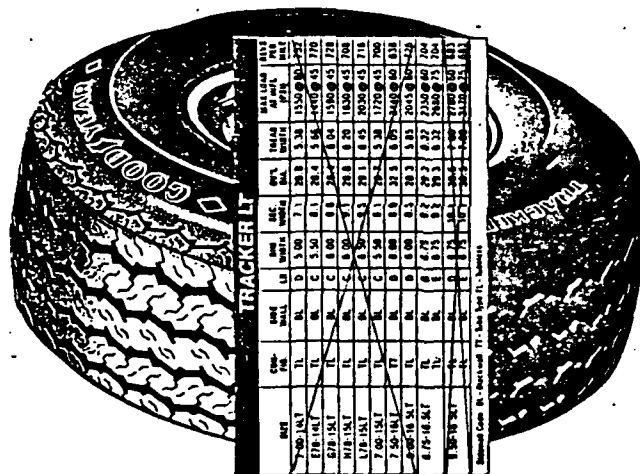


MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DURHAM, NEW JERSEY 07801-5001	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE		BY		<div><div>TIME</div><div>C 13200</div><div>SCALE 1/1</div><div>UNIT PT</div><div>SHEET</div></div>	
TOLERANCES ON DECIMALS = .005 ± 0.01		DATE		BY			
FRACTIONS = 1/16		DATE		BY			
ANGLES = 30°		DATE		BY			
THIRD ANGLE PROJECTION		DATE		BY			
							
CJT		CJT		CJT			
MEAT ASSY		USED ON					
APPLICATION							

CAN STATUS USER 87/03/12 M20E94 LTHD4

DRAWING SIZE B

SUGGESTED SOURCE OF SUPPLY:
THE GOODYEAR TIRE AND RUBBER CO.
AKRON, OHIO 44316
VENDOR PART NO. 753-175-50C
NAT. STR. NO. 2G10-00-469-805R



TRACKER LT-2

A Light Truck Favorite
That's All Muscle

- The strength of tempered, long-wearing nylon cord
- The dependability of rugged bias-ply construction
- Flat tread contour promotes long, even wear
- Use on front- or rear-wheel drive vehicles

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

PART NO.

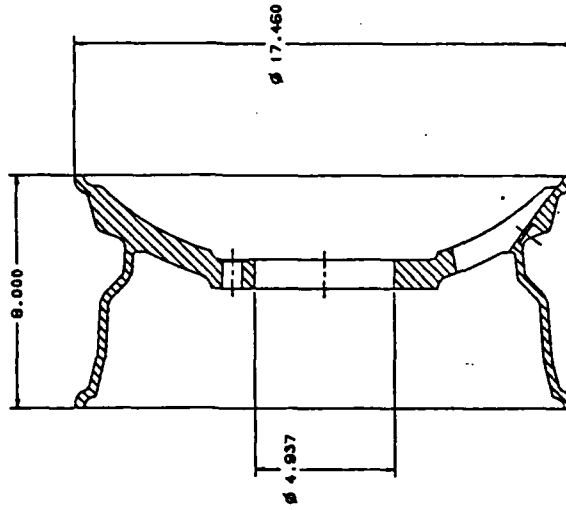
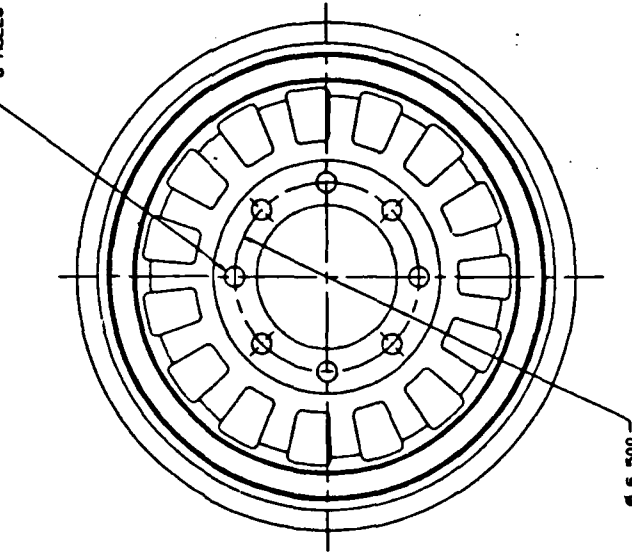
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
TIRE	
SIZE B 19200	FSCM NO. T 12585738/A
SCALE	UNIT WT.
SHEET 1 OF 1	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 1-27-87
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	CHECKER 97-2-11 DRAFTSMAN ENGR ENGR
THIRD ANGLE PROJECTION	ENGR
MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
BH	
RH	
NEXT ASSY	USED ON
APPLICATION	

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

PURCHASE FROM
 AMERICAN PACIFIC EQUIPMENT CO.
 2000 CENTRAL STREET
 TORRANCE, CALIFORNIA 90503
 DRAWING NUMBER 00082
 PART NUMBER 356601
 16.5 X 6.75 HURRICANE 11
 MATERIAL
 CAST ALUMINUM, HEAT TREATED

Ø .685 THRU
 8 HOLES



REV	REVISION	DATE	APPROVED

AMERICAN PACIFIC EQUIPMENT CO. 2000 CENTRAL STREET TORRANCE, CALIFORNIA 90503		ORIGINAL DATE OF ISSUE 11/1/74	
MECHANICAL PROPERTIES TENSILE STRENGTH YIELD STRENGTH ELONGATION REDUCTION OF AREA HARDNESS		INITIAL DATE OF ISSUE 11/1/74	
BB DOT SCALE BRASSING MECHANICAL PROPERTIES TENSILE STRENGTH YIELD STRENGTH ELONGATION REDUCTION OF AREA HARDNESS		INITIAL DATE OF ISSUE 11/1/74	
THIRD ANGLE PROJECTION FIRST ANGLE PROJECTION		INITIAL DATE OF ISSUE 11/1/74	
APPLICATION WHEEL		INITIAL DATE OF ISSUE 11/1/74	
PART NUMBER 356601		INITIAL DATE OF ISSUE 11/1/74	
DRAWING NUMBER 00082		INITIAL DATE OF ISSUE 11/1/74	
PURCHASE FROM AMERICAN PACIFIC EQUIPMENT CO.		INITIAL DATE OF ISSUE 11/1/74	
2000 CENTRAL STREET TORRANCE, CALIFORNIA 90503		INITIAL DATE OF ISSUE 11/1/74	
MATERIAL CAST ALUMINUM, HEAT TREATED		INITIAL DATE OF ISSUE 11/1/74	

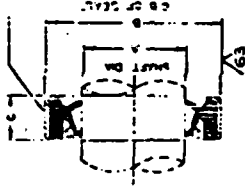
SUGGESTED SOURCE OR SUPPLY:

CRANE CO.

17870 SKYPARK CIR SUITE 101

IRVINE, CALIF. 92714

VENDOR PART NO. 200-300-1GL



SYMBOL	Q.D. OF SHAFT DIA.	"C" SEAL - "B"	ORIGINAL INCH SEAL DIA. OF SUPPLY SCALE 1/2" = 1"	CRANE 100-300-1GL
2.000	3.250 ± .002	5.33		

1549650-0028	NDA
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
SEAL, GREASE	
SIZE B 19200	FSCM NO. T 12585740 / A
SCALE	UNIT WT. SHEET 1 OF 1

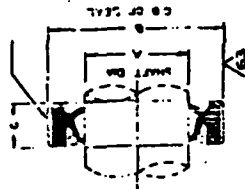
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-28-87
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		DRAFTSMAN CHECKER ENGR ENGR
THIRD ANGLE PROJECTION		ENGR
MECHANICAL PROPERTIES		
YP		
TS		
EL2		
RA		
BM		
RH		
NEXT ASSY	USED ON	
APPLICATION		

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

UNCLASSIFIED WHEN

SUGGESTED SOURCE OF SUPPLY:

CRANK CO.
17870 SKYPARK CIR SUITE 101
IRVINE, CA. 92714
VENDOR PART NUMBER: 181-275-16L



WORKING SHAFT DIA "A"	O.D. OF SEAL "B"	"C" MAX. AMT. OF SUPPLY SUL REL NO	CPAKC 181-275-16L
1.812	2.750 ± .005	3.000	CPAKC

1549650-0025	NDE
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

SEAL, GREASE

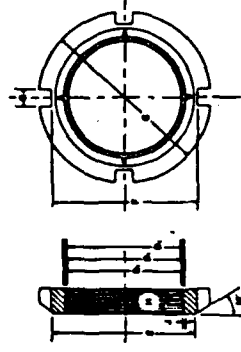
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-28-87
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		CHECKER 87-3-11 ENGR
THIRD ANGLE PROJECTION		DRAFTSMAN ENGR
		ENGR
MECHANICAL PROPERTIES		
YP		
TS		
EL2		
RA		
BH		
RH		
NEXT ASSY	USED ON	
APPLICATION		

SIZE
B 19200

SCALE
UNIT WT.

SHEET 1 OF 1

SUGGESTED SOURCE OF SUPPLY:
 STANDARD LOCKNUT AND LOCKWASHER, INC.
 P.O. BOX 40068
 INDIANAPOLIS, IND. 46240



NUT PER MS19068-103

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

REF. DWG.	DESCRIPTION

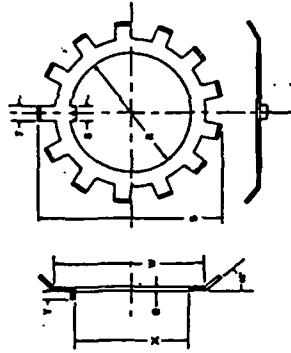
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07601-8001	
NUT, BEARING	
SIZE B	FSCM NO. 19200
SCALE	UNIT WT. T12585744 / A
SHEET	

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SMCAR FORM 66 (1 JUN 66TEMP) REPLACES ARRACOM FORM 66, AUG 77.
 WHICH MAY BE USED UNTIL EXHAUSTED

SUGGESTED SOURCE OF SUPPLY:
 STANDARD LOCKNUT AND LOCKWASHER, INC.
 P.O. Box 40088
 INDIANAPOLIS, IN. 46240



LOCKWASHER PER ME19070-103

REVISIONS		
SYM	DESCRIPTION	DATE

REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001		LOCKWASHER, BEARING	
		SIZE B FSCM NO. 19200 SCALE UNIT WT. T12585745/A SHEET 1 OF 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-28-87	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		DRAFTSMAN 1-28-87 ENGR	
THIRD ANGLE PROJECTION		CHECKER 1-28-87 ENGR	
MECHANICAL PROPERTIES YP TS EL2 RA BH RH		THIRD ANGLE PROJECTION 	
APPLICATION USED ON		NEXT ASSY	

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

UNCLASSIFIED

SUGGESTED SOURCE OF SUPPLY:

THE TIMKEN COMPANY
CANTON, OHIO, U.S.A.

VENDOR PART NO. JM2051497
JM205110A



HM204000-213000 SERIES

CONE				CUP				BEAR- ING			
Number	Size d	Width B	Height R	Number	Outside dia D	Width C	Height T	Max New Roll Dia	Max Old Roll Dia	Width T	Height T
JM205110A SERIES	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000



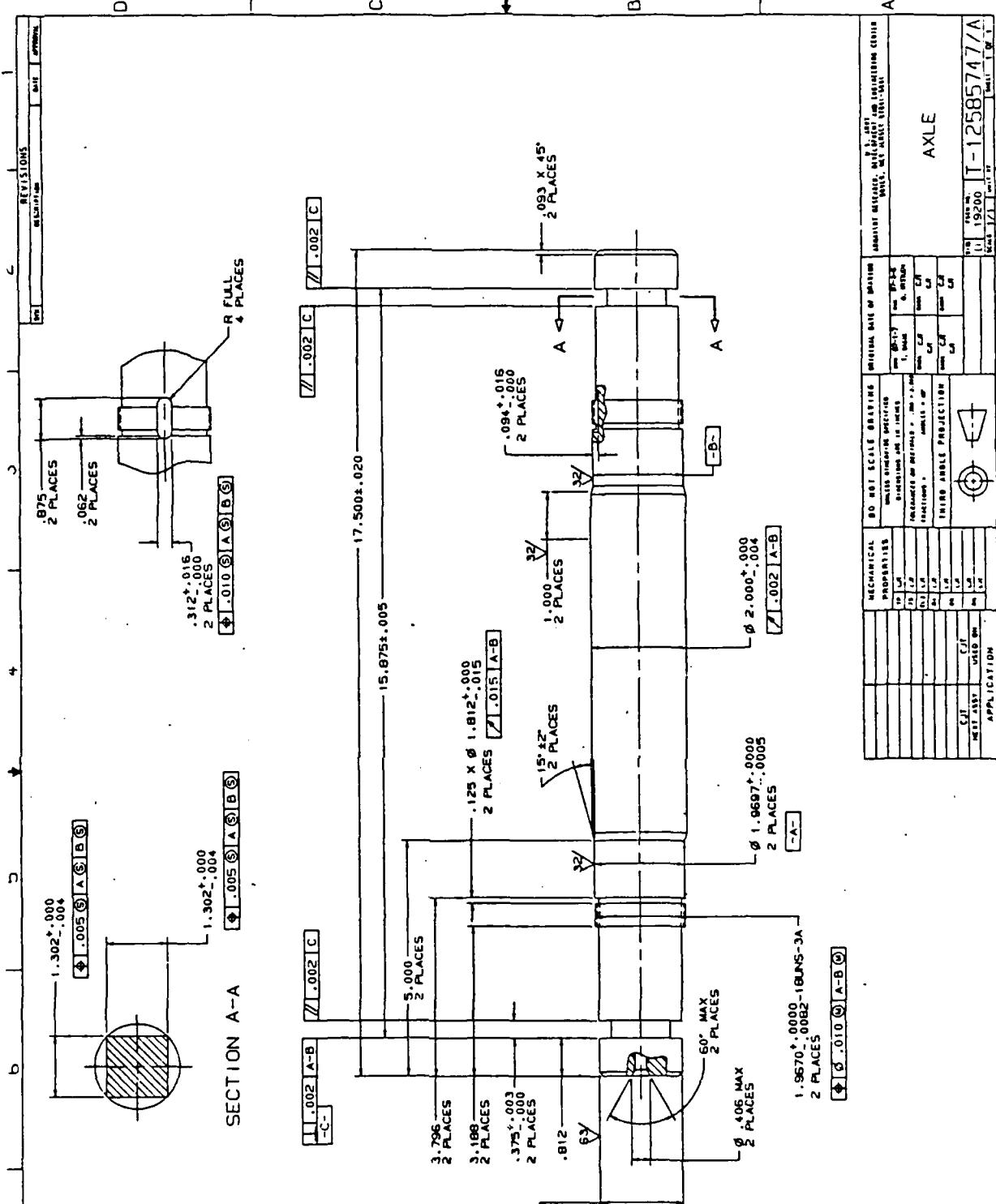
PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-27-67		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
YP		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		DRAFTSMAN A. J. J. J.	CHECKER B. J. J.	BEARING, ROLLER	
TS		THIRD ANGLE PROJECTION		ENGR	ENGR		
EL2				ENGR	ENGR		
RA							
BH							
RH							
NEXT ASSY		USED ON		SCALE		UNIT WT.	
APPLICATION				SIZE B		FSCM NO. 19200	
						T-1258574-G/A	
						SHEET 1 OF 1	

SMCAR FORM 66-1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

WHICH MAY BE USED UNTIL EXHAUSTED

1. EDGES .010-0.030
2. FILLETS R .010-0.010
3. EXCEPT AS NOTED, ALL SURFACES 125/
4. IDENTIFY AS "12585747" AND MFR FSCM NUMBER BY TAG, B40, OR QUX
5. QUENCH AND TEMPER PER MS13554 TO 240-320 BRINELL
6. NITRIDE HARDEN PER MS13554 TO MAXIMUM 150 92 MIN SURFACE DEPTH AND TO 910 MIN CASE DEPTH AND TO 40 ROCKWELL C EQUIVALENT
7. MAGNETIC PARTICLE INSPECT ACCEPTANCE PER MIL-STD-1230, GRADE 4 FOR ENTIRE ITEM
8. MATERIAL: ALLOY STEEL A151 4340 UNS G43400



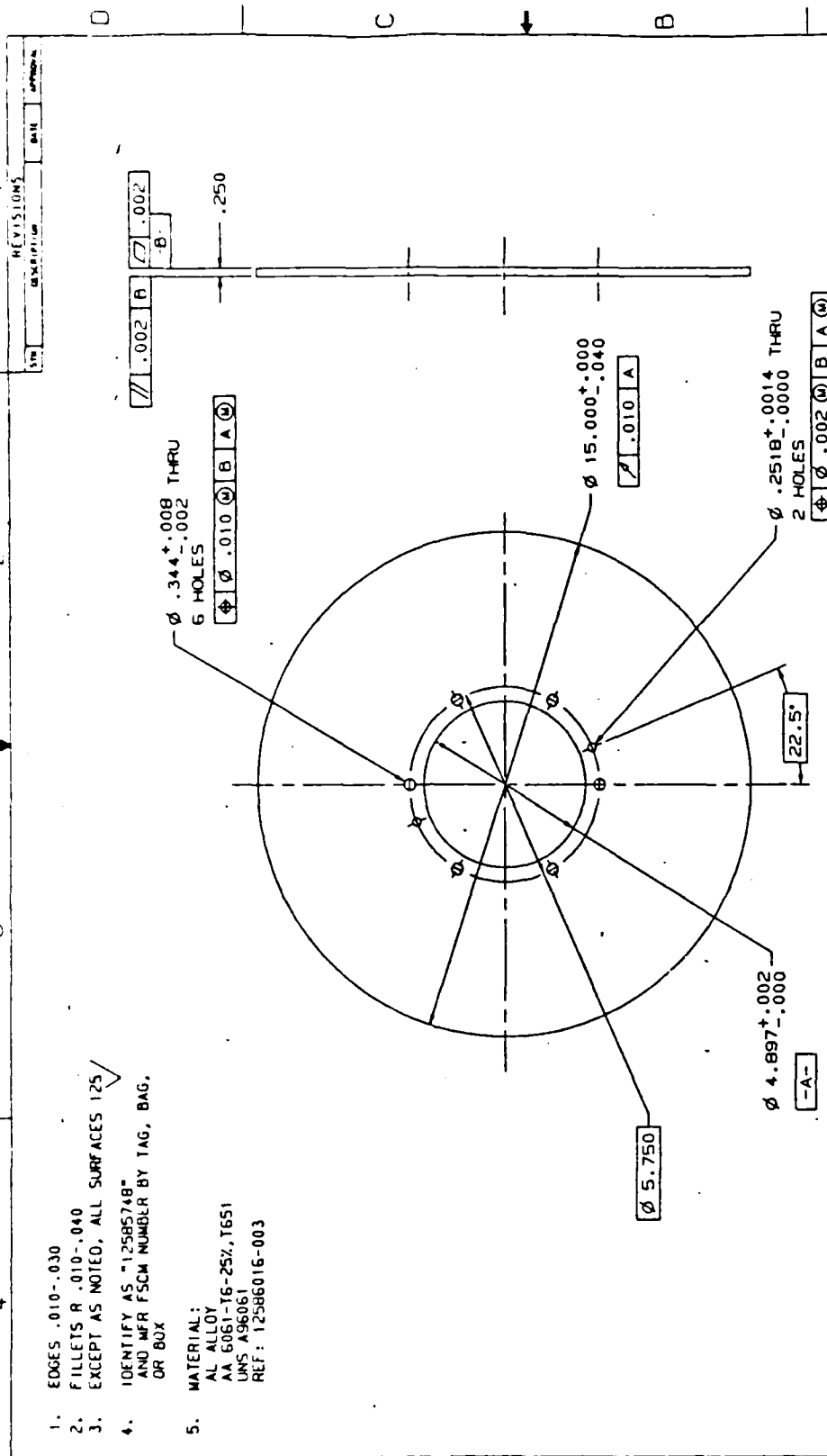
REVISIONS		DATE		APPROVAL	
NO.	DESCRIPTION	DATE	BY	DATE	BY
1	ISSUED FOR MANUFACTURE	11/19/2000	11/19/2000	11/19/2000	11/19/2000

ORIGINAL DATE OF MANUFACTURE		DATE OF INSPECTION		DATE OF REVISION	
NO.	DESCRIPTION	DATE	BY	DATE	BY
1	ISSUED FOR MANUFACTURE	11/19/2000	11/19/2000	11/19/2000	11/19/2000

MECHANICAL PROPERTIES		TENSILE STRENGTH		YIELD STRENGTH	
NO.	DESCRIPTION	DATE	BY	DATE	BY
1	ISSUED FOR MANUFACTURE	11/19/2000	11/19/2000	11/19/2000	11/19/2000

APPLICATION		DATE OF INSPECTION		DATE OF REVISION	
NO.	DESCRIPTION	DATE	BY	DATE	BY
1	ISSUED FOR MANUFACTURE	11/19/2000	11/19/2000	11/19/2000	11/19/2000

1. EDGES .010-.030
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 125/
4. IDENTIFY AS "12585748" AND MFR FSCM NUMBER BY TAG, BAG, OR BOX
5. MATERIAL:
AL ALLOY
AA 6061-T6-25% T651
UNS A96061
REF: 12586016-003



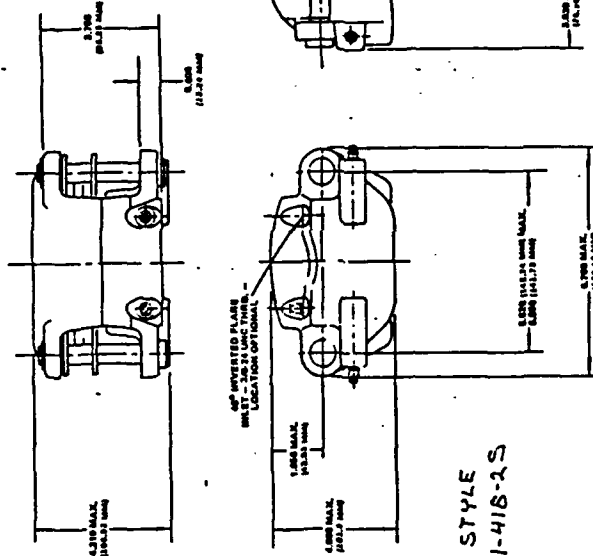
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = .001 TOLERANCES ON ANGLES = .010 FINISHES = C/P THIRD ANGLE PROJECTION		ORIGINAL DATE OF DRAFTING DATE 87-1-8 BY 87-1-8 CHECKED C/P APPROVED C/P	
MECHANICAL PROPERTIES 17 L/P 18 L/P 19 L/P 20 L/P 21 L/P 22 L/P 23 L/P 24 L/P 25 L/P 26 L/P 27 L/P 28 L/P 29 L/P 30 L/P 31 L/P 32 L/P 33 L/P 34 L/P 35 L/P 36 L/P 37 L/P 38 L/P 39 L/P 40 L/P 41 L/P 42 L/P 43 L/P 44 L/P 45 L/P 46 L/P 47 L/P 48 L/P 49 L/P 50 L/P 51 L/P 52 L/P 53 L/P 54 L/P 55 L/P 56 L/P 57 L/P 58 L/P 59 L/P 60 L/P 61 L/P 62 L/P 63 L/P 64 L/P 65 L/P 66 L/P 67 L/P 68 L/P 69 L/P 70 L/P 71 L/P 72 L/P 73 L/P 74 L/P 75 L/P 76 L/P 77 L/P 78 L/P 79 L/P 80 L/P 81 L/P 82 L/P 83 L/P 84 L/P 85 L/P 86 L/P 87 L/P 88 L/P 89 L/P 90 L/P 91 L/P 92 L/P 93 L/P 94 L/P 95 L/P 96 L/P 97 L/P 98 L/P 99 L/P 100 L/P		APPLICATION C/P USED ON L/P	
CAD STATUS USER 87/03/06 M20E94 LTHD1		1	

ROTOR, DISC BRAKE

T-12585748/A C 19200 SCALE 1/2 SHEET 1 OF 1
--

DRAWING SIZE D

SUGGESTED SOURCE OF SUPPLY:
 HAYES INDUSTRIAL BRAKE, INC.
 5800 WEST DONGES BAY ROAD
 P.O. BOX 99
 MEQUON, WISC. 53092
 VENDOR PART NO:



STYLE
 1-418-2S

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		CALIPER, SERVICE BRAKE	
SIZE	FSCM NO.	UNIT WT.	SHEET 1 OF 1
B	19200	T-12585749	/A
ORIGINAL DATE OF DRAWING		DRAFTSMAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHECKER	
TOLERANCES ON DECIMALS *		ENGR	
FRACTIONS * ANGLES *		ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	
YP	TS	THIRD ANGLE PROJECTION	
EL2	RA	THIRD ANGLE PROJECTION	
BH	RH	THIRD ANGLE PROJECTION	
NEXT ASSY		USED ON	
APPLICATION		USED ON	

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRACOM FORM 66, AUG 77.

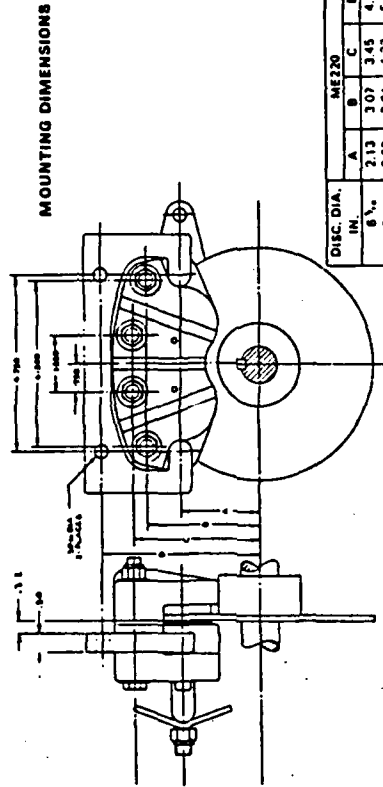
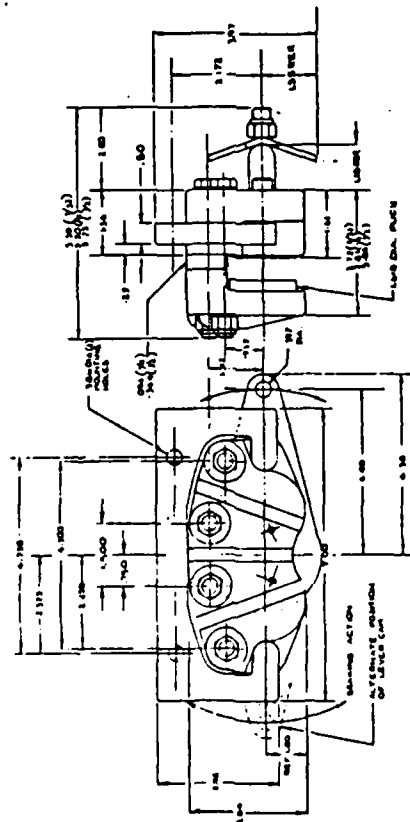
DRAWING SIZE B

SUGGESTED SOURCE OF SUPPLY:

TOL-O-MATIC

1029 South Third Street
Minneapolis, Minnesota 55415

MODEL NO. ME2208F 07450011



MOUNTING DIMENSIONS			
DISC DIA. IN.	A	B	C
8"	2.13	3.07	3.45
10"	3.00	3.94	4.32
12"	4.00	4.94	5.32
14"	5.00	5.94	6.32
16"	7.00	8.03	8.41

FEATURES

- Aluminum die cast construction • Heat treated one piece lever/cam • Replaceable picks • Alloy steel floating bracket
- Linkage adjustment nut • Grade 8 cadmium plated bolts
- 8 square inches total pick area • High grade friction material • 1.66 cu. in. of wear-free friction material
- Adaptable to discs up to 16 inches diameter.

MAXIMUM TORQUE RATINGS OF SERVICE BRAKE
8" Disc - 10281 inch lbs. 12" Disc - 21948 inch lbs.
10" Disc - 13608 inch lbs. 16" Disc - 31147 inch lbs.

MAX. ALLOWABLE LEVER FORCE - 600 LBS.

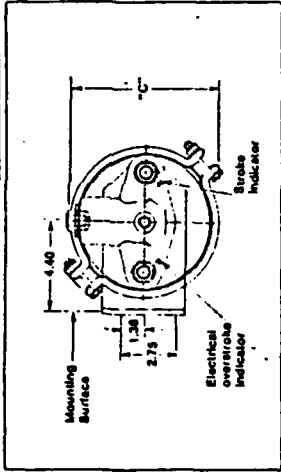
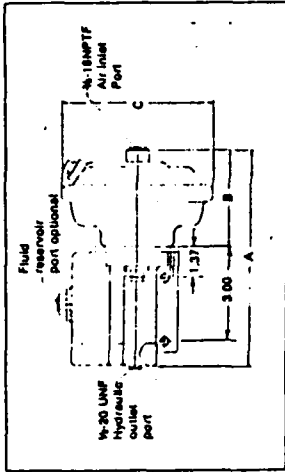
PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 1-27-57	U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
				CALIPER DISC BRAKE MECHANICAL ALUMINUM	
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION	DRAFTSMAN 1/1/57 ENGR	CHECKER 3-17 ENGR	SIZE B 19200
					ESCM NO. 712585750/A
APPLICATION		SCALE		UNIT WT.	SHEET 1 OF 1

SMCAR FORM 56, 1 JUN 56 (TEMP) REPLACES ARRADCOM FORM 56, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

SUGGESTED SOURCE OF SUPPLY:

MIDLAND BRAKE, INC.
 490 South Chestnut Street
 Owosso, MI 48867
 VENDOR PART NO. N3711G



ITEM PART NO AND NEW SERVICE UNIT	CUBIC INCH DISPLACEMENT MINIMUM HYDRAULIC	DIMENSIONS	HYDRAULIC CHECK VALVE	ELECTRIC OVERSTROKE INDICATOR	THREADED FILLER CAP
18 N3711G	3.5	A 11.43 B 5.25 C 8.12	YES	YES	1/2-20

PART NO.

U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 DOVER, NEW JERSEY 07801-5001

PRESSURE CONVERTER

SIZE	FSCM NO.	UNIT WT.	SHEET
B	19200	T-12585751/A	

ORIGINAL DATE OF DRAWING

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DRAFTSMAN	CHECKER
ENGR	ENGR
ENGR	ENGR

TOLERANCES ON DECIMALS *
 FRACTIONS * ANGLES *

THIRD ANGLE PROJECTION



MECHANICAL PROPERTIES

YP	
TS	
EL2	
RA	
BH	
RH	

NEXT ASSY USED ON

APPLICATION

SKACR FORM 66-1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

SUGGESTED SOURCE OF SUPPLY:

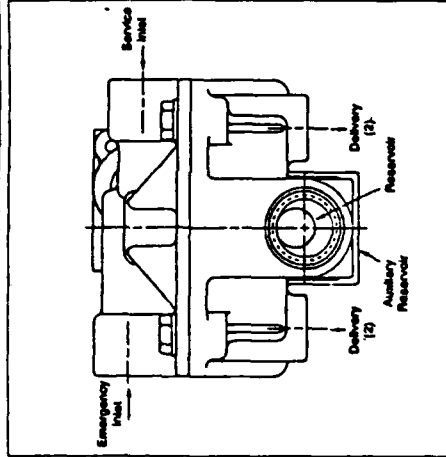
MIDLAND BRAKE, INC.
490 South Chestnut Street
Dowdso, MI 48867

VENDOR PART NO. AF4G229

- Weight 3.0 lbs.
- Major Repair Kit
- A78846

REPLACEMENT PARTS

TANK ADAPTER KIT
A37487 SERVICE
VALVE BRACKET
A38249 SERVICE



OEM PART NO.	NEW SERVICE UNIT	TYPE	BLEED COHM	SEV INLET	EMER INLET	DELIVERY INLET	AUXILIARY INLET	RESERVOIR	REMARKS
AF4G229	A45228	CHANGING	YES	1/4	1/4	1/4	3/4 PLUGGED	3/4	---

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

EMERGENCY RELAY VALVE

SIZE B FSCM NO. 19200 T-12585752/A

SCALE UNIT WT. SHEET

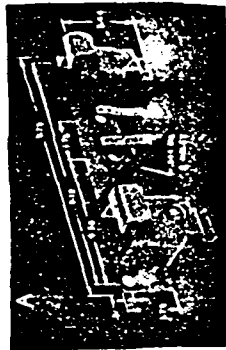
DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN: J. CHECKER	
TOLERANCES ON DECIMALS & ANGLES &		ENGR	
FRACTIONS & ANGLES &		ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES			
YP			
TS			
EL2			
RA			
BH			
RH			
NEXT ASSY USED ON			
APPLICATION			

WARNING JILL U

SUGGESTED SOURCE OF SUPPLY:

MIDLAND BRAKE, INC.
490 South Chestnut Street
Owosso, MI 48867

VENDOR PART NO. N17025



O.E.M.	STYLE	REMARKS
N1702G	A	For Direct Cable Mount

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
HOSE SUPPORT BRACKET	
SIZE B 19200	FSCM NO. T 12385754/A
SCALE	UNIT WT.
ORIGINAL DATE OF DRAWING 1-27-57	DRAFTSMAN J. J. J. J.
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CHECKER ENGR
TOLERANCES ON DECIMALS FRACTIONS THIRD ANGLE PROJECTION	ENGR
MECHANICAL PROPERTIES	ENGR
YP	ENGR
TS	ENGR
EL2	ENGR
RA	ENGR
BH	ENGR
RH	ENGR
NEXT ASSY	USED ON
APPLICATION	

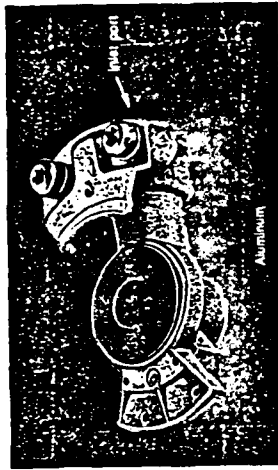
SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

SUGGESTED SOURCE OF SUPPLY:

MIDLAND BRAKE, INC.
490 South Chestnut Street
Owosso, MI 48867

VENDOR PART NO. 10450



O.E.M.	MATERIAL COMPOSITION	CONFIGURATION	SEAL STYLE	FILTER
10450	Aluminum	Universal	A	No

REPLACEMENT

FILTERS & SEALS		
Filter	Full Face	Protector
10035	A	C
O.E.M.	10028	10024
1040311	1500	10405

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001

GLADHAND

SIZE
B 19200
SCALE
UNIT WT.
T 1258.7755/A
SHEET 1 OF 1

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-28-87	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		CHECKER DRAFTSMAN ENGR ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		ENGR	
YP		ENGR	
TS		ENGR	
EL2		ENGR	
RA		ENGR	
BH		ENGR	
RH		ENGR	
NEXT ASSY		USED ON	
APPLICATION		ENGR	

SMC FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

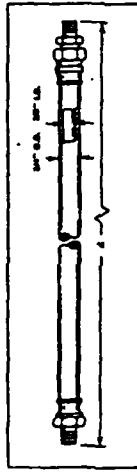
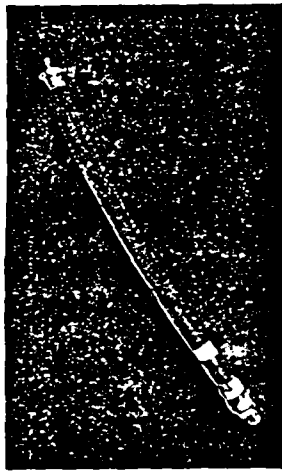
UNCLASSIFIED

REVISIONS		
SYM	DESCRIPTION	DATE

AIR HOSE ASSEMBLIES
3/8" I.D. x 3/4" O.D.

- Type B.
- Permanent Fittings.
- Made in strict accordance with SAE J1402 and DOT 106 specifications.
- Hose Rack available - #2009878

REPLACEABLE ADAPTERS
N12306 1/4-18 NPTF
N12306G 3/8-18 NPTF



SUGGESTED SOURCE OF SUPPLY:

MIDLAND BRAKE, INC.
490 South Chestnut Street
Owosso, MI 48867
VENDOR PART NO. 62X137280

MAX. AIR PRESSURE 100 PSI

1/4" x 18 NPTF ENDS ONE FIXED ONE SWIVEL	
SWIVEL	LENGTH A

60X10250 72"

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

AIR HOSE

SIZE
B FSCM NO.
19200 T12585756 /A

SCALE UNIT WT. SHEET 1 OF 1

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-27-87			
MECHANICAL PROPERTIES	YP	DRAFTSMAN	CHECKER		
	TS	ENGR	ENGR		
	EL2	ENGR	ENGR		
APPLICATION	RA	TOLERANCES ON DECIMALS #			
	BH	FRACTIONS #			
	RH	ANGLES #			
NEXT ASSY USED ON	THIRD ANGLE PROJECTION				

SMCAR FORM 66 (JUN 86) (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

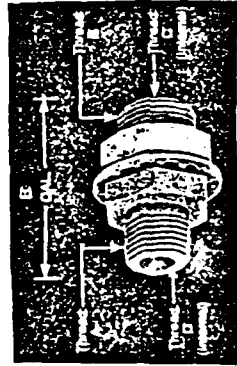
SIMCAR FORM 56, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 56, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING J144 0

SUGGESTED SOURCE OF SUPPLY:

MIDLAND BRAKE, INC.
490 South Chestnut Street
Owosso, MI 48867

VENDOR PART NO. N1171B



SERVICE	O.E.M.	OVERALL LENGTH	THREAD SIZE			
			A	B	C	D
N1171B	N1171B	1.65"	1/2-14 NPTF	1/4-18 UNF	1/4-18 NPTF	1/4-18 NPTF

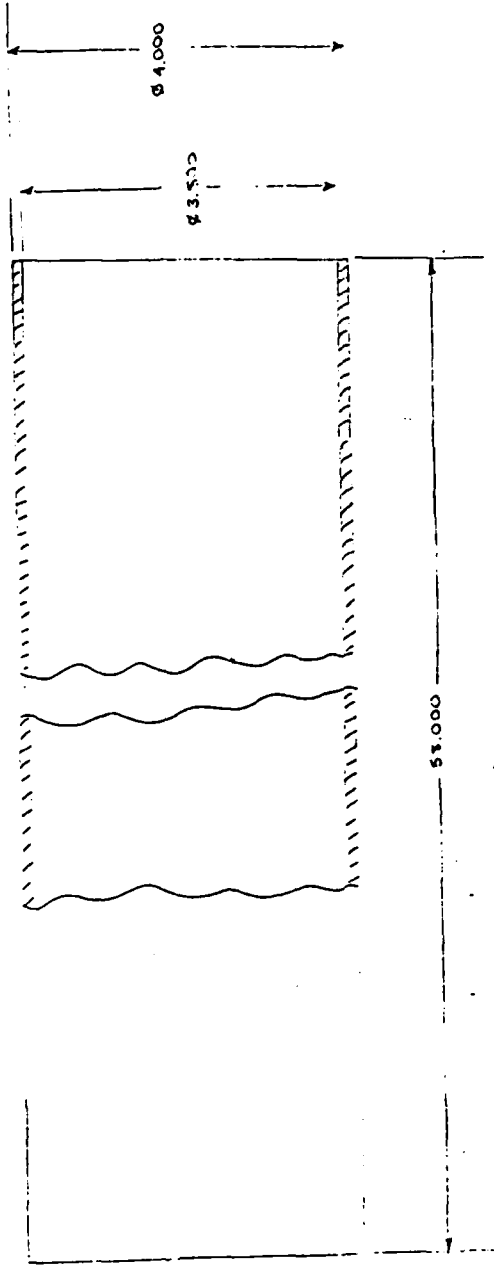
PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN J. J. J.		CHECKER	
TS		TOLERANCES ON DECIMALS *		ENGR		ENGR	
EL2		FRACTIONS * ANGLES *		ENGR		ENGR	
RA		THIRD ANGLE PROJECTION		ENGR		ENGR	
BH							
RH							
NEXT ASSY	USED ON						
APPLICATION							
SIZE		FSCM NO.		SCALE		UNIT WT.	
B 19200		T-12585758/A					

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

DRAWING SIZE B

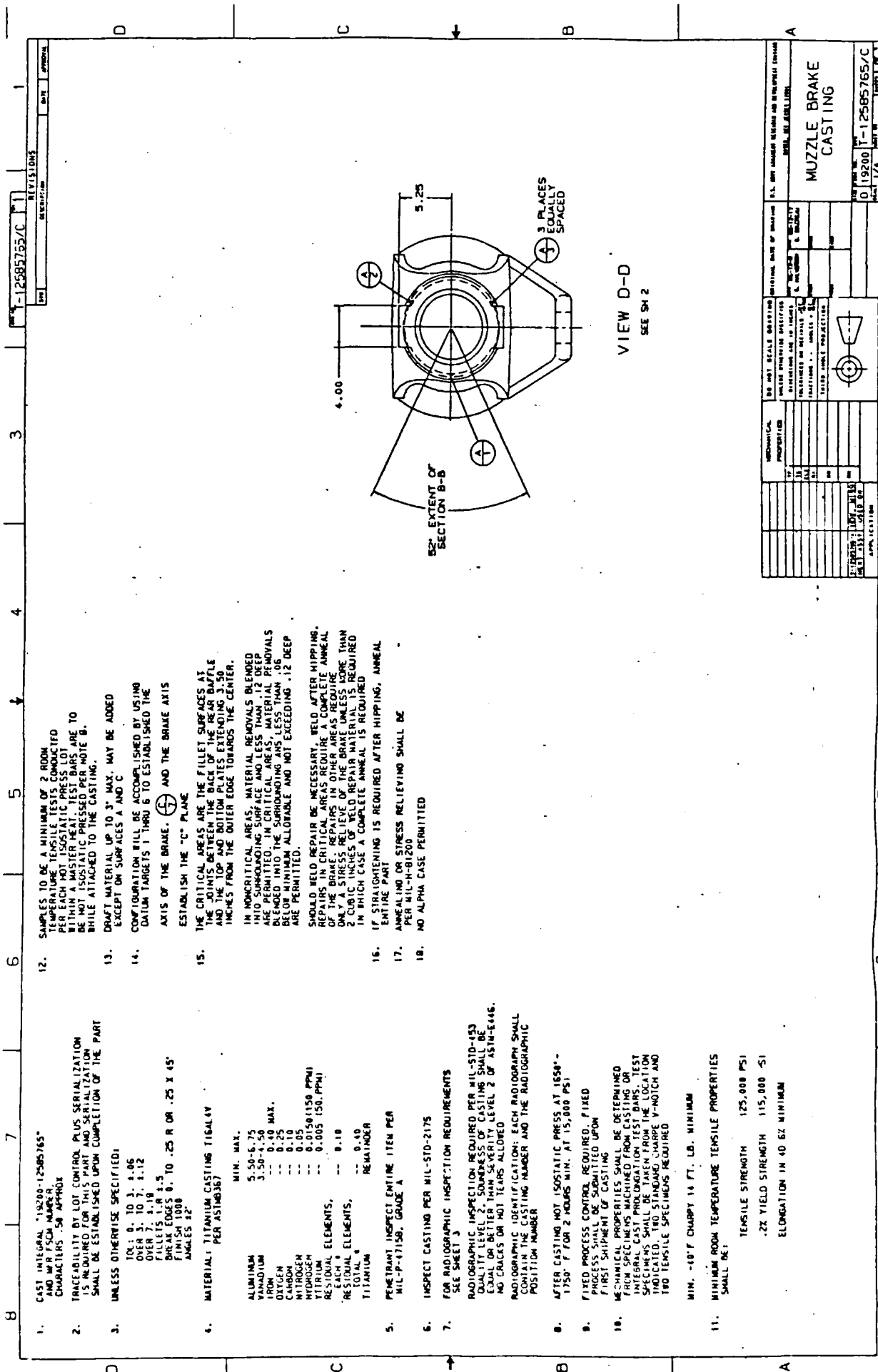
1. EDGES .005-.010
2. MATERIAL:
HIGH STRENGTH ALLOY
STEEL, MAKING,
MIL-S-46250 TYPE 3,
GR 300



PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 2-25-87		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
TUBE, EQUILIBRATION ACTUATOR MOUNT		DRAFTSMAN J. T. LITTLE		TOLERANCES ON DECIMALS ±.010 FRACTIONS ± — ANGLES ± —		YP		NEXT ASSY	
		ENGR		THIRD ANGLE PROJECTION		TS		USED ON	
		ENGR				EL2			
		ENGR				RA			
						BH			
SIZE B 19200						RH			
FSCM NO. T-12585763/A									
SCALE NONE		UNIT WT. 20.5 lbs							
SHEET 1 of 1									

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

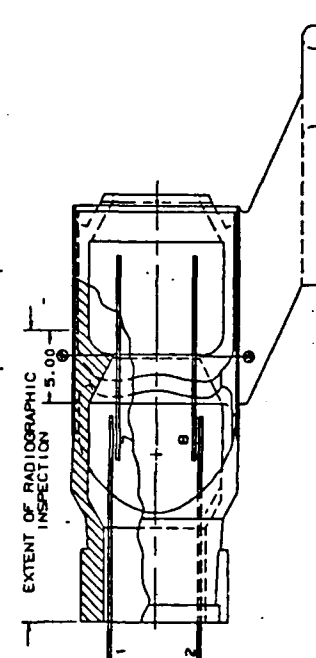


REV	DESCRIPTION	DATE	APPROVAL
1	-12585755/C		

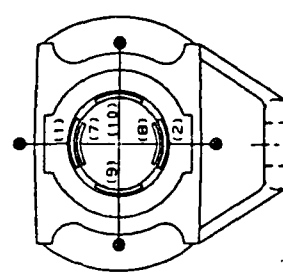
REV	DESCRIPTION	DATE	APPROVAL
1	-12585755/C		

REV	DESCRIPTION	DATE	APPROVAL
1	-12585755/C		

REV	DESCRIPTION	DATE	APPROVAL
1	-12585755/C		



VIEW G
OPTIONAL METHOD



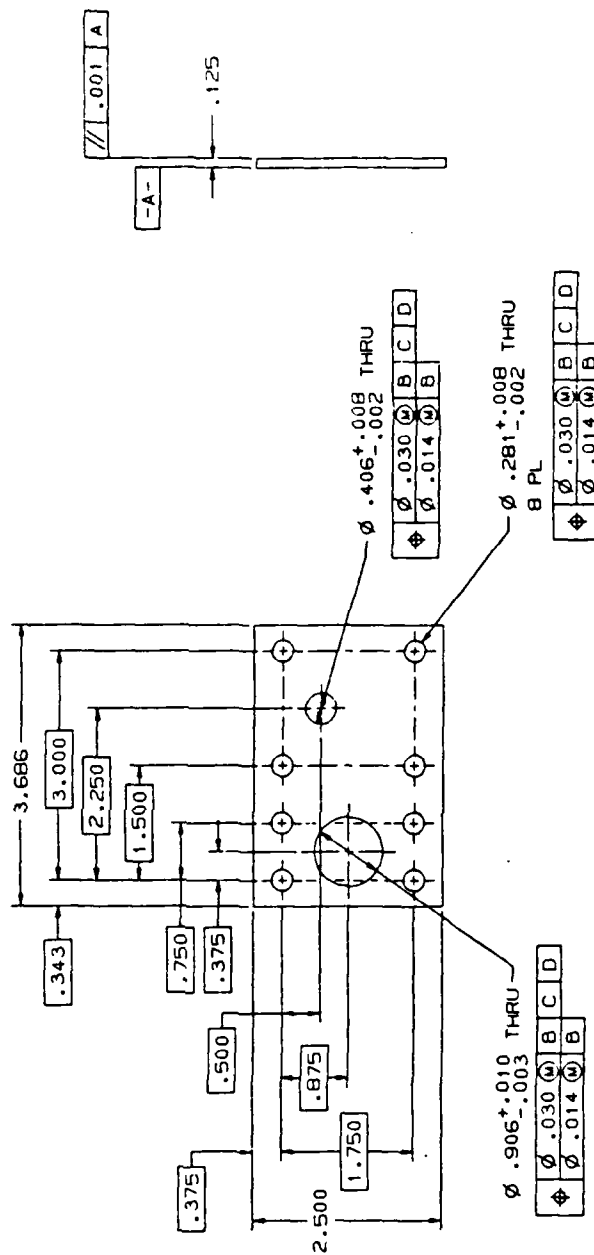
POSITION NO.	APPROX. SIZE	APPROX. SECTION THICKNESS	DOUBLE FILM REQUIRED
1	7 X 17	1.18 & 1.88	YES
2	7 X 17	1.18 & 1.88	YES
3	8 X 10	1.50	NO
4	8 X 10	1.50	NO
5	10 X 12	4.12 & 3.00	YES
6	10 X 12	4.12 & 3.00	YES
7	11 X 14	2.12	NO
8	11 X 14	2.12	NO
9	7 X 17	1.18 & 1.88	YES
10	7 X 17	1.18 & 1.88	YES

[illegible]

DRAWING SIZE C

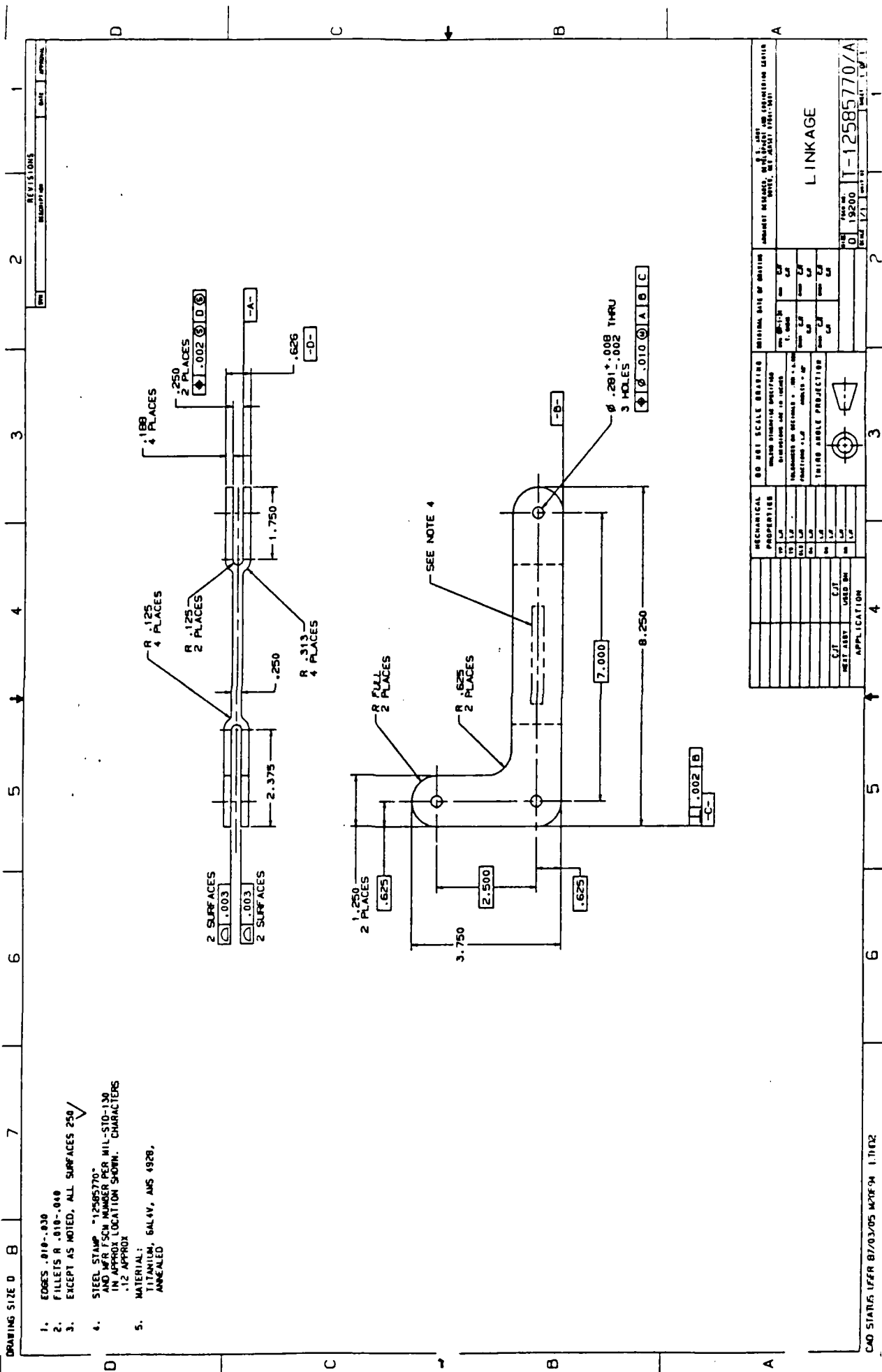
REVISIONS		
STN	DESCRIPTION	DATE
		APPROVAL

1. EDGES .005-.020
2. FILLETS .005-.020
3. IDENTIFY AS "12585768"
AND MFR NUMBER BY BAG, TAG,
OR BOX
4. MATERIAL: TITANIUM



PART NO.

STATION: 1012 07/03/09 M20F72 1 TI TRAY



1. EDGES .010-.030
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 250
4. STEEL STAMP "12585770" AND PARTS NUMBER PER MIL-S10-130 AND APPROX LOCATION SHOWN. CHARACTERS .12 APPROX
5. MATERIAL: TITANIUM, 6AL4V, AMS 4920, ANNEAL

REVISIONS		DATE	APPROVAL
1			
2			
3			
4			
5			
6			
7			

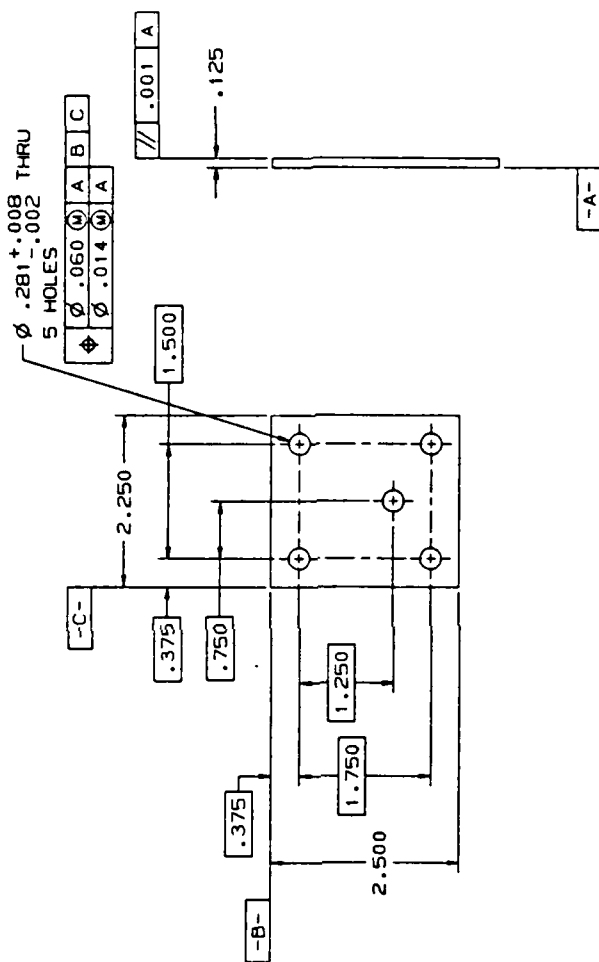
MINIMUM DATE OF QUALITY	MINIMUM DATE OF QUALITY	MINIMUM DATE OF QUALITY	MINIMUM DATE OF QUALITY	MINIMUM DATE OF QUALITY	MINIMUM DATE OF QUALITY
1. 0000	1. 0000	1. 0000	1. 0000	1. 0000	1. 0000
2. 0000	2. 0000	2. 0000	2. 0000	2. 0000	2. 0000
3. 0000	3. 0000	3. 0000	3. 0000	3. 0000	3. 0000
4. 0000	4. 0000	4. 0000	4. 0000	4. 0000	4. 0000
5. 0000	5. 0000	5. 0000	5. 0000	5. 0000	5. 0000
6. 0000	6. 0000	6. 0000	6. 0000	6. 0000	6. 0000
7. 0000	7. 0000	7. 0000	7. 0000	7. 0000	7. 0000
8. 0000	8. 0000	8. 0000	8. 0000	8. 0000	8. 0000
9. 0000	9. 0000	9. 0000	9. 0000	9. 0000	9. 0000
10. 0000	10. 0000	10. 0000	10. 0000	10. 0000	10. 0000

MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	MECHANICAL PROPERTIES
1. 0000	1. 0000	1. 0000	1. 0000	1. 0000	1. 0000
2. 0000	2. 0000	2. 0000	2. 0000	2. 0000	2. 0000
3. 0000	3. 0000	3. 0000	3. 0000	3. 0000	3. 0000
4. 0000	4. 0000	4. 0000	4. 0000	4. 0000	4. 0000
5. 0000	5. 0000	5. 0000	5. 0000	5. 0000	5. 0000
6. 0000	6. 0000	6. 0000	6. 0000	6. 0000	6. 0000
7. 0000	7. 0000	7. 0000	7. 0000	7. 0000	7. 0000
8. 0000	8. 0000	8. 0000	8. 0000	8. 0000	8. 0000
9. 0000	9. 0000	9. 0000	9. 0000	9. 0000	9. 0000
10. 0000	10. 0000	10. 0000	10. 0000	10. 0000	10. 0000

APPLICATION	APPLICATION	APPLICATION	APPLICATION	APPLICATION	APPLICATION
1. 0000	1. 0000	1. 0000	1. 0000	1. 0000	1. 0000
2. 0000	2. 0000	2. 0000	2. 0000	2. 0000	2. 0000
3. 0000	3. 0000	3. 0000	3. 0000	3. 0000	3. 0000
4. 0000	4. 0000	4. 0000	4. 0000	4. 0000	4. 0000
5. 0000	5. 0000	5. 0000	5. 0000	5. 0000	5. 0000
6. 0000	6. 0000	6. 0000	6. 0000	6. 0000	6. 0000
7. 0000	7. 0000	7. 0000	7. 0000	7. 0000	7. 0000
8. 0000	8. 0000	8. 0000	8. 0000	8. 0000	8. 0000
9. 0000	9. 0000	9. 0000	9. 0000	9. 0000	9. 0000
10. 0000	10. 0000	10. 0000	10. 0000	10. 0000	10. 0000

DRAWING SIZE C

1. EDGES .005-.020
2. IDENTIFY AS "12585773" AND MFR NUMBER BY BAG, TAG, OR BOX
3. MATERIAL: TITANIUM

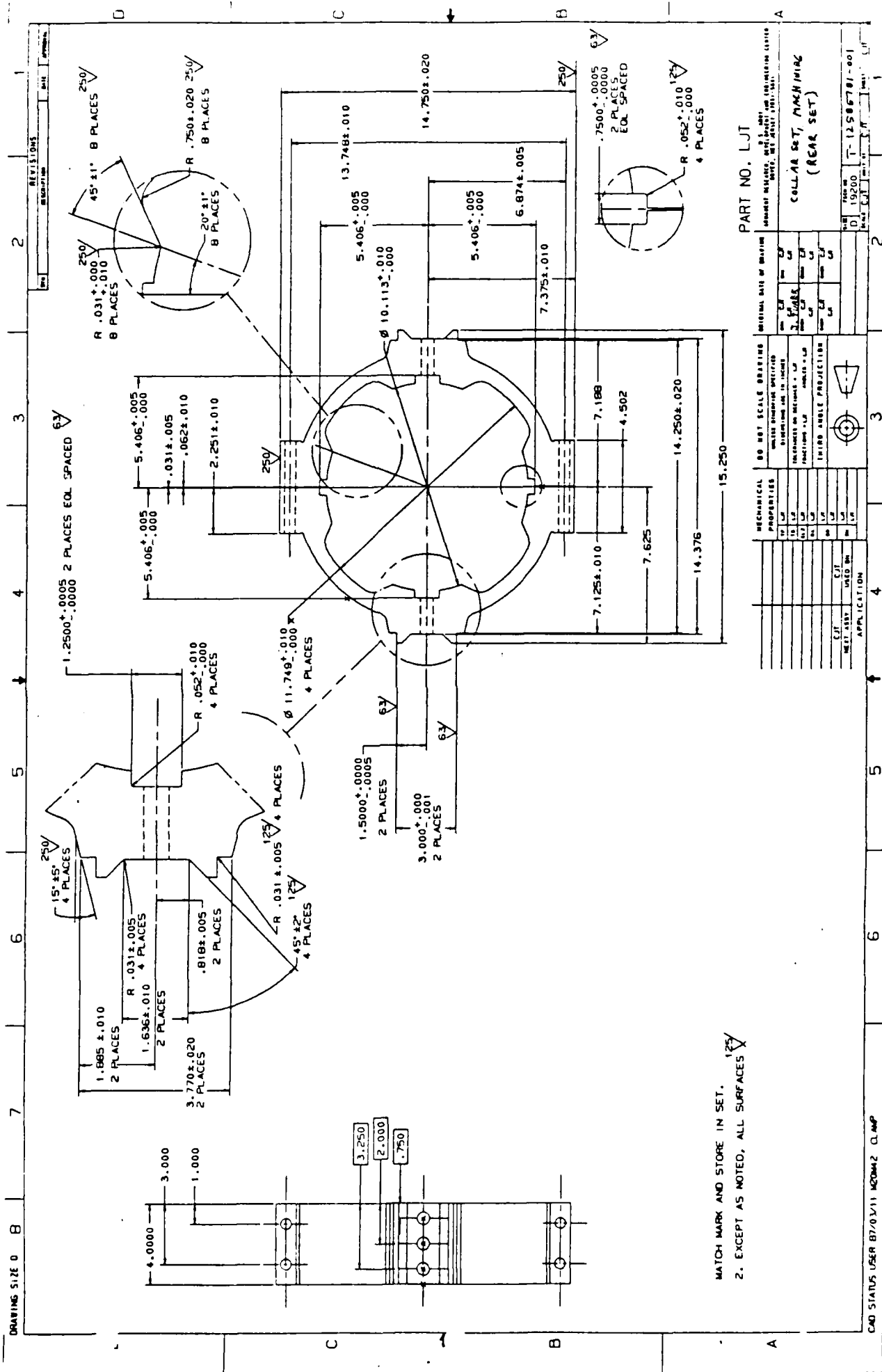


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DAYTON, OHIO 45461-0001		ORIGINAL DATE OF DRAWING	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = ± .015 FRACTIONS = ± .005 THIRD ANGLE PROJECTION		DATE 87-2-10 BY S. HUNTERSON CHECKED APPROVED	
MECHANICAL PROPERTIES		TYP T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T28 T29 T30 T31 T32 T33 T34 T35 T36 T37 T38 T39 T40 T41 T42 T43 T44 T45 T46 T47 T48 T49 T50 T51 T52 T53 T54 T55 T56 T57 T58 T59 T60 T61 T62 T63 T64 T65 T66 T67 T68 T69 T70 T71 T72 T73 T74 T75 T76 T77 T78 T79 T80 T81 T82 T83 T84 T85 T86 T87 T88 T89 T90 T91 T92 T93 T94 T95 T96 T97 T98 T99 T100	
APPLICATION		NEXT ASSY USED ON LTHD	
PLATE, AFT		PART NO. C 19200 T-12585773/A SCALE 1/1 UNIT OF CALC .39 INCHES 1 OF 1	

CAD STATUS USER 87/03/09 M20E72 LTLIRAY

SIZE B	FSCM NO. 19200	T-12585778/A
SCALE 1/1	UNIT BT CALC. 14 LBS	SHEET 1 OF 1



125/ MATCH MARK AND STORE IN SET.
2. EXCEPT AS NOTED, ALL SURFACES

CAD STATUS USER B7/03/11 120442 0 AMP

DRAWING SIZE 0 B

7

6

5

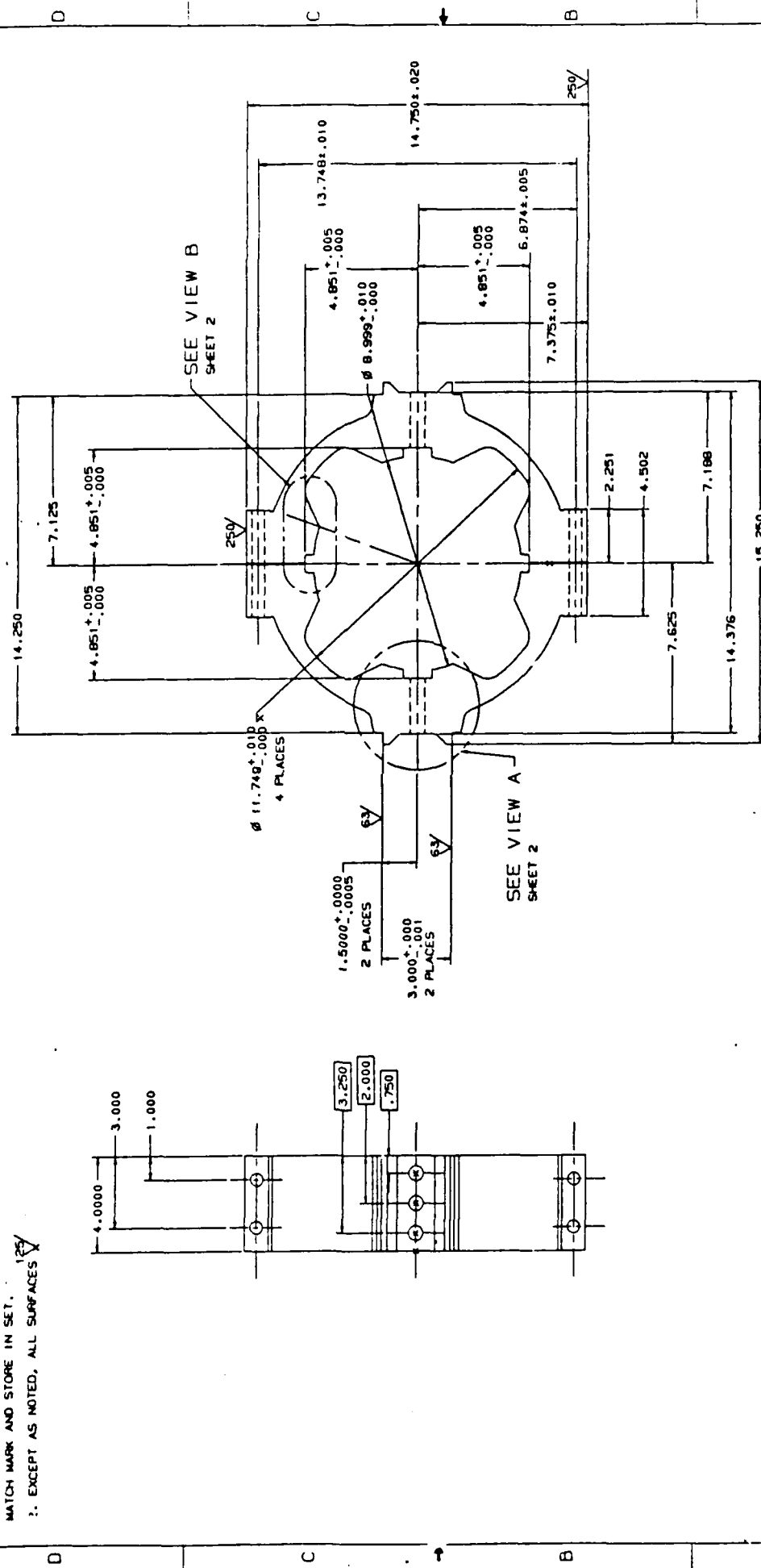
4

3

2

1

MATCH MARK AND STORE IN SET. 125
 1. EXCEPT AS NOTED, ALL SURFACES $\sqrt{}$



PART NO. LJT

REVISIONS
 DATE
 DESCRIPTION

ORIGINAL DATE OF DRAWING

NO. OF SCALE DRAWING
 NUMBER DRAWING SPECIFIED
 DIMENSIONS AND TOLERANCES
 REFERENCES OR DETAILS TO
 PARTS OF THE DRAWING

MECHANICAL PROPERTIES
 TENSILE
 YIELD
 ELONGATION
 REDUCTION OF AREA
 HARDNESS
 TENSILE
 YIELD
 ELONGATION
 REDUCTION OF AREA
 HARDNESS

APPLICATION
 C/J
 M/T
 U/L
 V/L
 W/L
 X/L
 Y/L
 Z/L

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

COLLAR SET, MACHINING

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

1000 ADDED PROJECTION

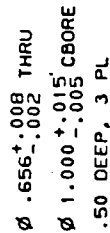
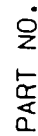
1000 ADDED PROJECTION

1000 ADDED PROJECTION

CAD STATUS 17/11/2013 M/T/M/2 0 AM

A

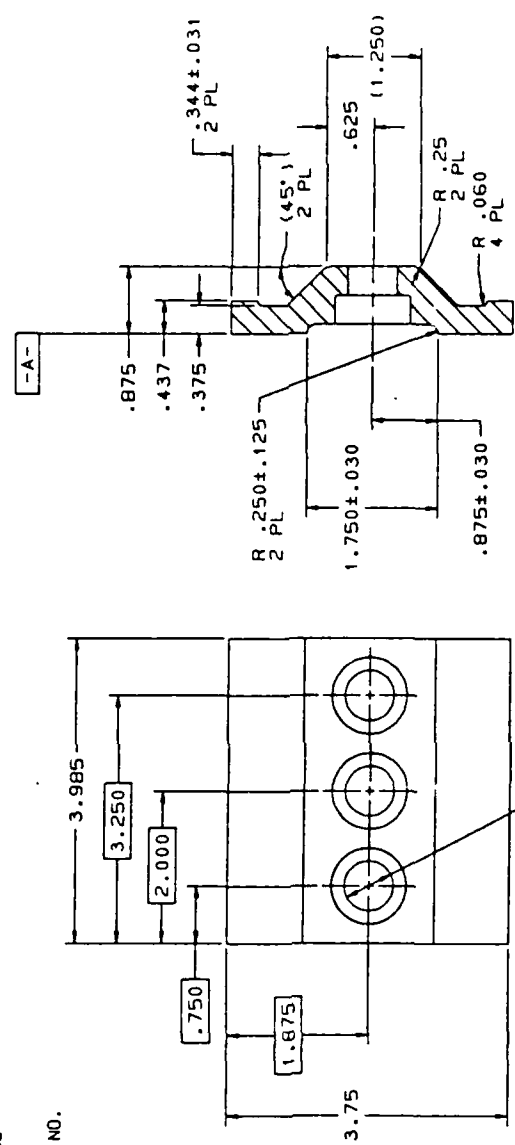
4. MATERIAL: TITANIUM T16AL4V

 $\Phi \quad \varnothing .014 \text{ M} \quad \text{A} \text{ (M)}$ 

CAO STATUS USER 87/01/27 M20E72 LWTOWED

REVISIONS		
REV	DESCRIPTION	DATE
1		

1. EXCEPT AS NOTED:
- 1.1 FILLETS R .005-.020
- 1.2 EDGES .005-.020
2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
3. IDENTIFY AS "12585782" BY TAG, BAG,
4. MATERIAL: MACHINED FROM PART NO. 1258: 316-002



$\phi .656^{+.008}_{-.002}$ THRU
 $\phi 1.000^{+.015}_{-.005}$ CBORE
 .50 DEEP, 3 PL

$\phi .014 \text{ (A)} \text{ (A)}$

PART NO.

H. S. JURY
 ABSTRACT RESEARCH, DEVELOPMENT AND ENGINEERING CONSULTING
 BOYER, NEW JERSEY 07001-5001

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF BRACING	
TP		UNLESS OTHERWISE SPECIFIED		REV. 87-1-22	DATE 87-1-22
TS		DIMENSIONS ARE IN INCHES		S. INCHES	D. NUMBER
ELI		TOLERANCES ON DECIMALS = ± .015		GOOD	GOOD
RA		FRACTIONS = ± .015		GOOD	GOOD
BM		ANGLES = ± .5°		GOOD	GOOD
LT10		THIRD ANGLE PROJECTION		GOOD	GOOD
USED ON				GOOD	GOOD
NEXT ASSY				GOOD	GOOD
APPLICATION				GOOD	GOOD

CLAMP PLATE, RAIL

T-12585782/C
 SCALE 1/1
 SHEET 1 OF 1

CAD STATUS USER B7/03/10 M20E72 LWTOWED

DRAWING SIZE B

1. EDGES .005--.020
2. IDENTIFY AS "12585783"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL:
AL ALLOY
AA 6061-T6, T651
UNS A96061

.250-20UNC-2B
1.00 MIN FULL THD DEPTH
CSK 90° ±10° X Ø .28 ±.01
BOTH ENDS

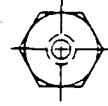
Ø .014 (M) A

10.875



.625
HEX

-A-



// .002 A

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
TP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DWG 87-2-1B	CHK	ROD	
TS		TOLERANCES ON DECIMALS = ± .015		S. HALVERSON			
TH		FRACTIONS = ---		ENGR			
HA		ANGLES = ± 2°			ENGR		
THIRD ANGLE PROJECTION							
SIZE		FSCN NO.		SCALE		SHEET	
B		19200		1/1		1 OF 1	
T-12585783/A							

AD-A183 997

LIGHTWEIGHT TOWED HOWITZER DEMONSTRATOR PHASE 1 AND
PARTIAL PHASE 2 VOLUM (U) FNC CORP MINNEAPOLIS MINN
NORTHERN ORDNANCE DIV R RATHE ET AL AL APR 87

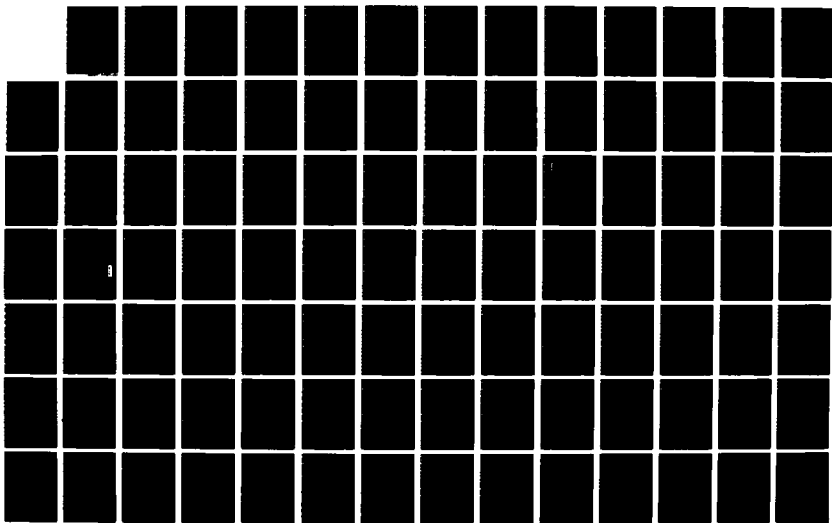
3/5

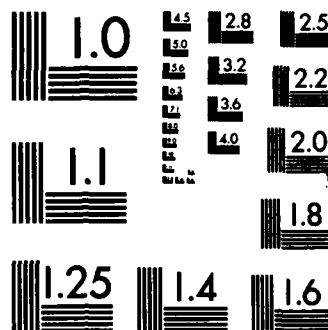
UNCLASSIFIED

FNC-E-3841-VOL-G DAAA21-86-C-8847

F/G 19/6

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DRAWING SIZE C

4

3

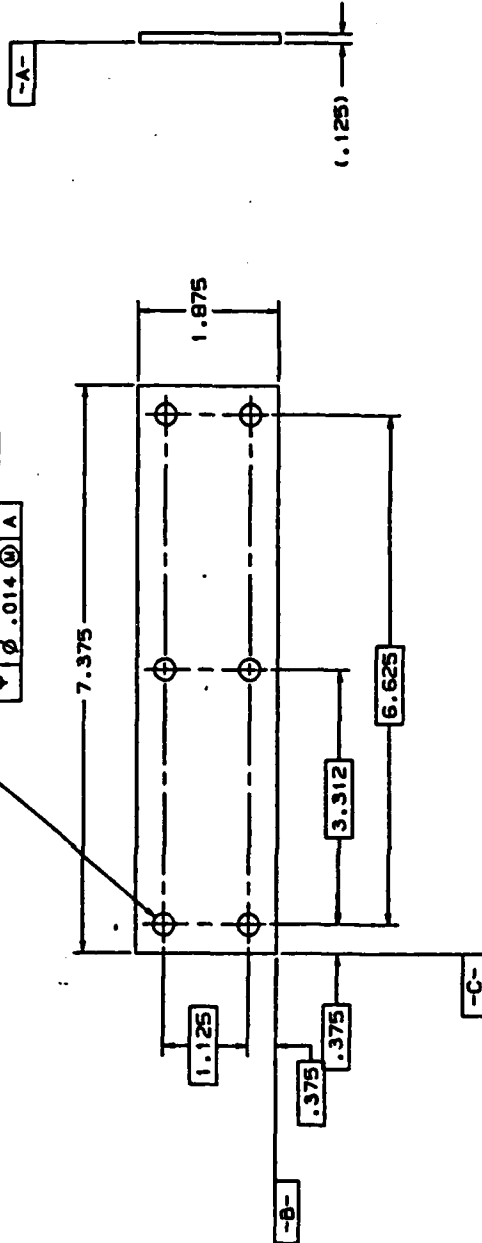
2

1

1. EDGES .005-.020
2. IDENTIFY AS " 12585784 " AND MFR NUMBER BY BAG, TAG, OR BOX
3. MATERIAL: COMPOSITE FIBER EPOXY

Ø .281^{+0.008}_{-.002} THRU 6 HOLES

Ø .060	Ø .014	A	B	C
Ø .060	Ø .014	A	B	C



AMERICAN RESEARCH, INC., 1001 NEW YORK, N.Y. 10017-1001		ORIGINAL DATE OF DRAFTING		DO NOT SCALE DRAFTING		MECHANICAL PROPERTIES		APPLICATION	
STIFFENER		DATE		UNLESS OTHERWISE SPECIFIED		TENSILE		CJT	
T-12585784/A		1. DATE		DIMENSIONS ARE IN INCHES		TENSILE		NEXT ASSY	
C 19200		2. DATE		TOLERANCES ON DECIMALS - .005		TENSILE		USED ON	
1/1		3. DATE		FRACTIONS - 1/16		TENSILE		L/A	
1		4. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		5. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		6. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		7. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		8. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		9. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	
1		10. DATE		THIRD ANGLE PROJECTION		TENSILE		L/A	

CAD STATUS USER 07/03/12 M20E94 LT104

PART NO.

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

12505785	WATERVLIET-SUPPLIED ITEMS
REF. DW6,	DESCRIPTION

PART NO.

**ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001**

KEY, MUZZLE BRAKE

SIZE	FSCM NO.	12585786
B	19200	

ORIGINAL DATE OF DRAWING
87-2-23

DRAFTSMAN S. DALO	CHECKER J. TURK
ENGR B. ANDERSON	ENGR
ENGR	ENGR

DO NOT SCALE DRAWING

TOLERANCES ON DECIMALS ±
FRACTIONS ± **ANGLES ±**

THIRD ANGLE PROJECTION

MECHANICAL PROPERTIES

YP	TS	EL2	RA	DM	RM
----	----	-----	----	----	----

12585710-240
NEXT AGGY

APPLICATION

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
THIS FORM MAY BE USED WITH EVALUATION

DRAWING SIZE 8

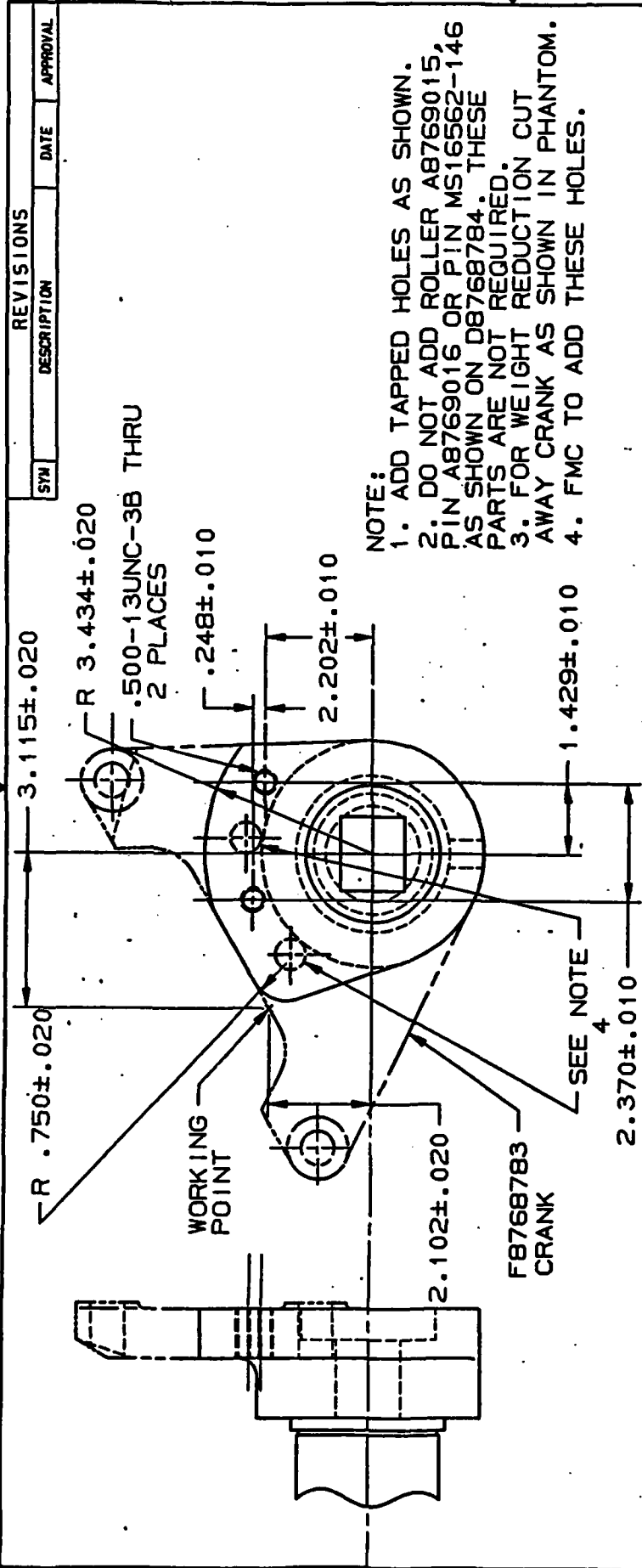
SYN		REVISIONS	
DESCRIPTION	DATE	APPROVAL	
<p>SUPPLIER:</p> <p>WATERLIET ASSEMBLY</p> <p>WATERLIET, NEW YORK 12189-4050</p> <p>PART NO.: WTV-C30105</p> <p>FSCN No.: N206</p>		<p>12585785 WATERLIET-SUPPLIED ITEMS</p> <p>REF. DWG. DESCRIPTION</p>	

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-2-23		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER		DOVER, NEW JERSEY 07801-8001	
YP		DRAFTSMAN	CHECKER			THRUST COLLAR ASSEMBLY	
TS		S. J. MCLAUGHLIN	J. TULEK				
EL2		ENGR	ENGR				
RA		ENGR	ENGR				
BH		ENGR	ENGR				
RH							
12585710-240		THIRD ANGLE PROJECTION				<p>SIZE</p> <p>FSCN NO.</p> <p>B 19200</p>	
NEXT ASSY		USED ON		SCALE		UNIT WT. 24.0	
APPLICATION				SHEET 1 OF 1		12585787	

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

UNFINISHED SIZE

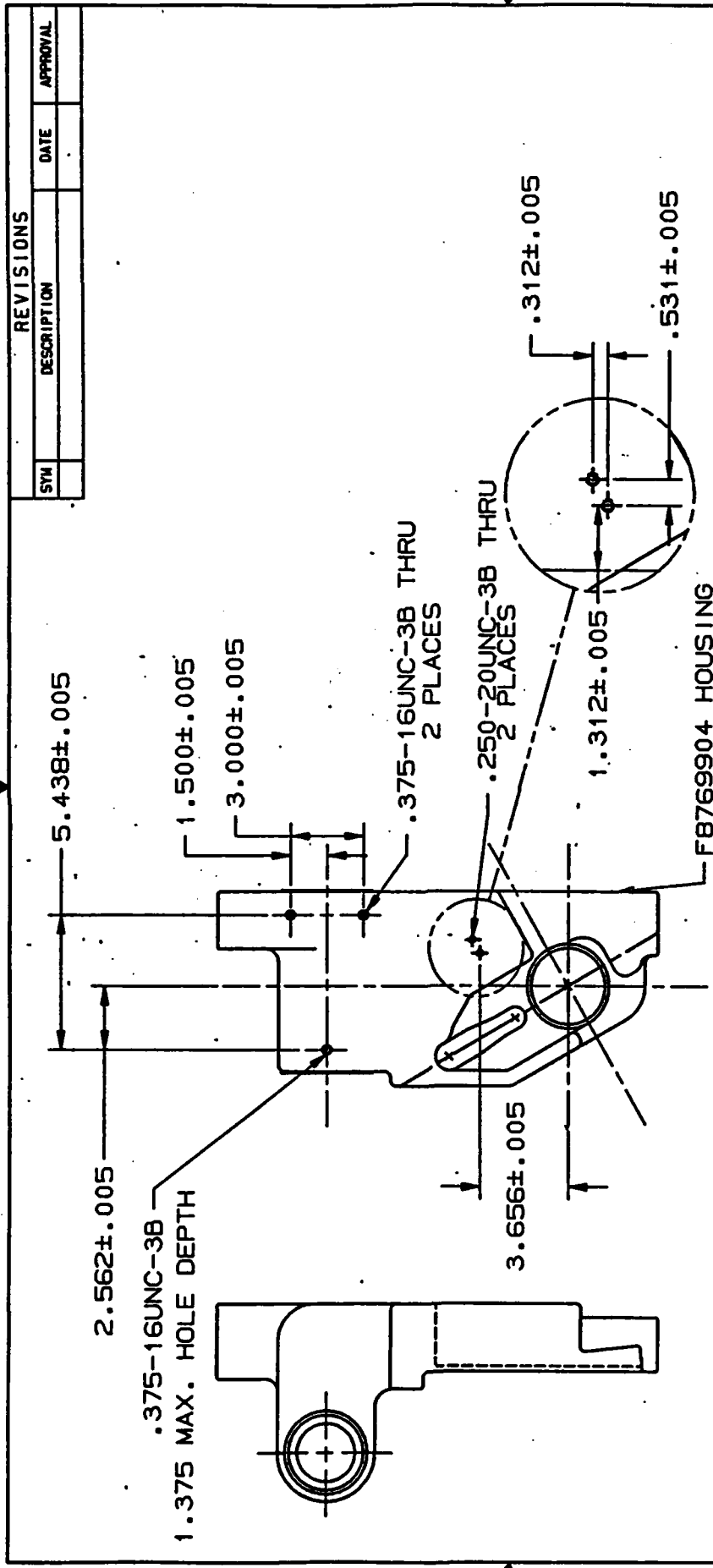


NOTE:
 1. ADD TAPPED HOLES AS SHOWN.
 2. DO NOT ADD ROLLER A8769015, PIN A8769016 OR PIN M516562-146 AS SHOWN ON D8768784. THESE PARTS ARE NOT REQUIRED.
 3. FOR WEIGHT REDUCTION CUT AWAY CRANK AS SHOWN IN PHANTOM.
 4. FMC TO ADD THESE HOLES.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOWRY, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING 87-2-23		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		APPLICATION	
BREECH MECHANISM ASSEMBLY INTERFACE		J. TUREX CHK 87-2-23		TOLERANCES ON DECIMALS = FRACTIONS = ANGLES =		YP TS EL2 RA BH RH		NEXT ASSY 12585710-240 USED ON	
SIZE B		FSCM NO. 19200		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		12585710-240	
SCALE 1/2		UNIT BT		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		12585710-240	
SHEET 2 OF 3		UNIT BT		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		12585710-240	

CAD STATUS USER 87/02/19 M20M42 GUN

DRAWING SIZE B



SYN		REVISIONS		DATE		APPROVAL	
DESCRIPTION							
DO NOT SCALE DRAWING				ORIGINAL DATE OF DRAWING 87-2-23			
UNLESS OTHERWISE SPECIFIED				DIMENSIONS ARE IN INCHES			
TOLERANCES ON DECIMALS =				FRACTIONS =			
THIRD ANGLE PROJECTION							
MECHANICAL PROPERTIES				U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001			
YP TS EL2 RA BH RH				BREECH MECHANISM ASSEMBLY INTERFACE			
12585710-240 NEXT ASSY USED ON APPLICATION				SIZE B SCALE 1/4			
12585710-240 NEXT ASSY USED ON APPLICATION				FSCM NO. 19200 SHEET 1/4			
12585710-240 NEXT ASSY USED ON APPLICATION				UNIT WT - SHEET 3 OF 3			

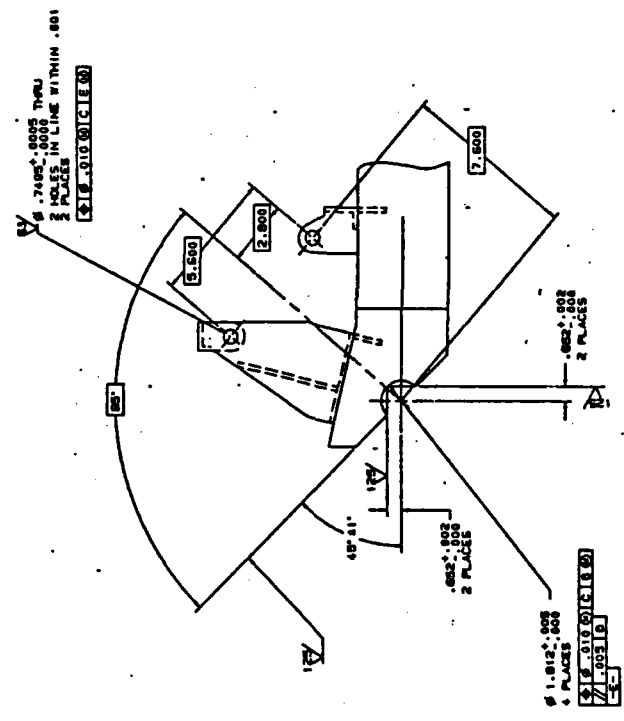
CAD STATUS USER 87/02/19 M20M42 GUN



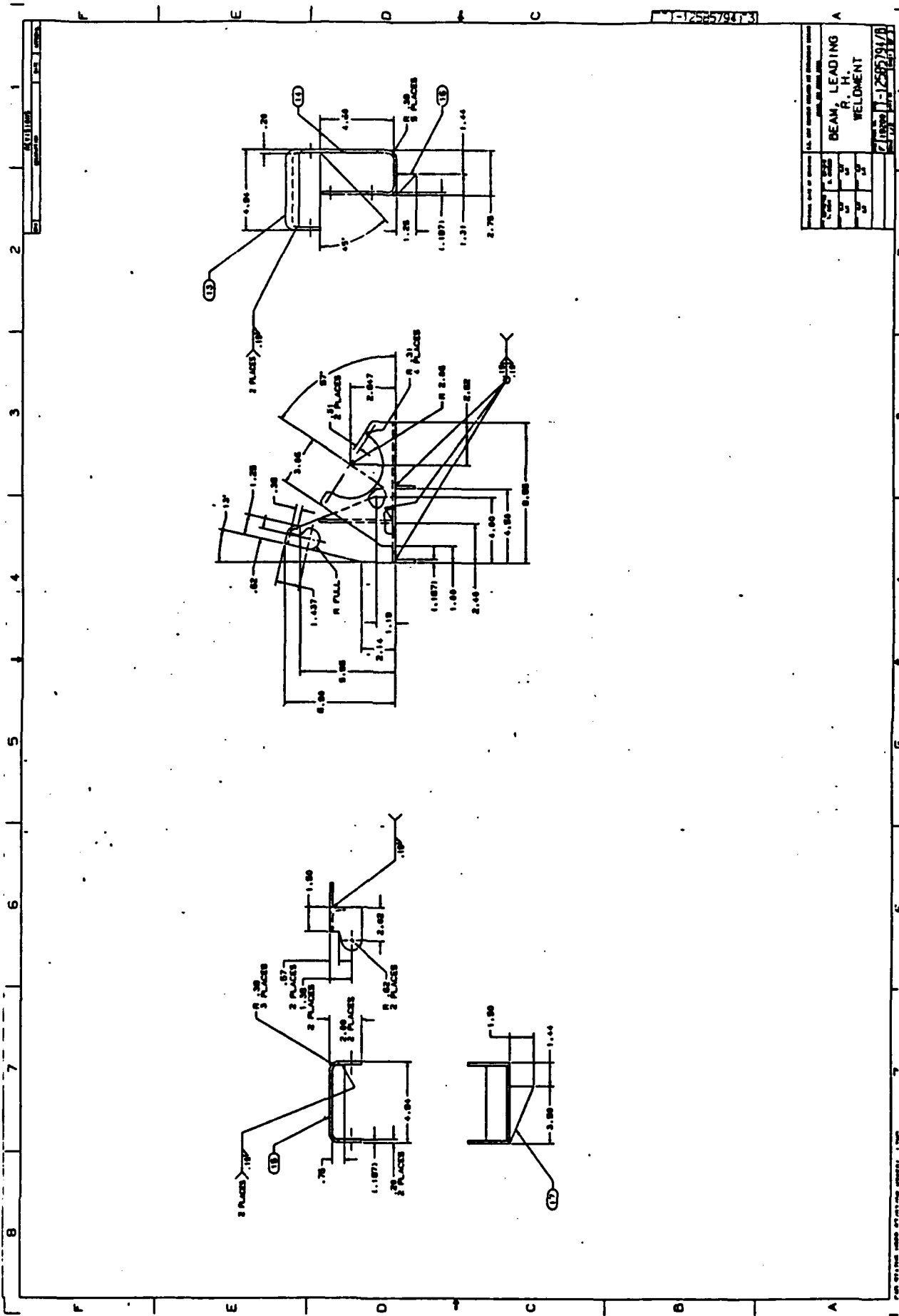
DATE: 12-25-79
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

125857931-2

L. H. H. MACHINING	
BEAM, LAGGING	
L. H. H. MACHINING	
125857931-2	
125857931-2	

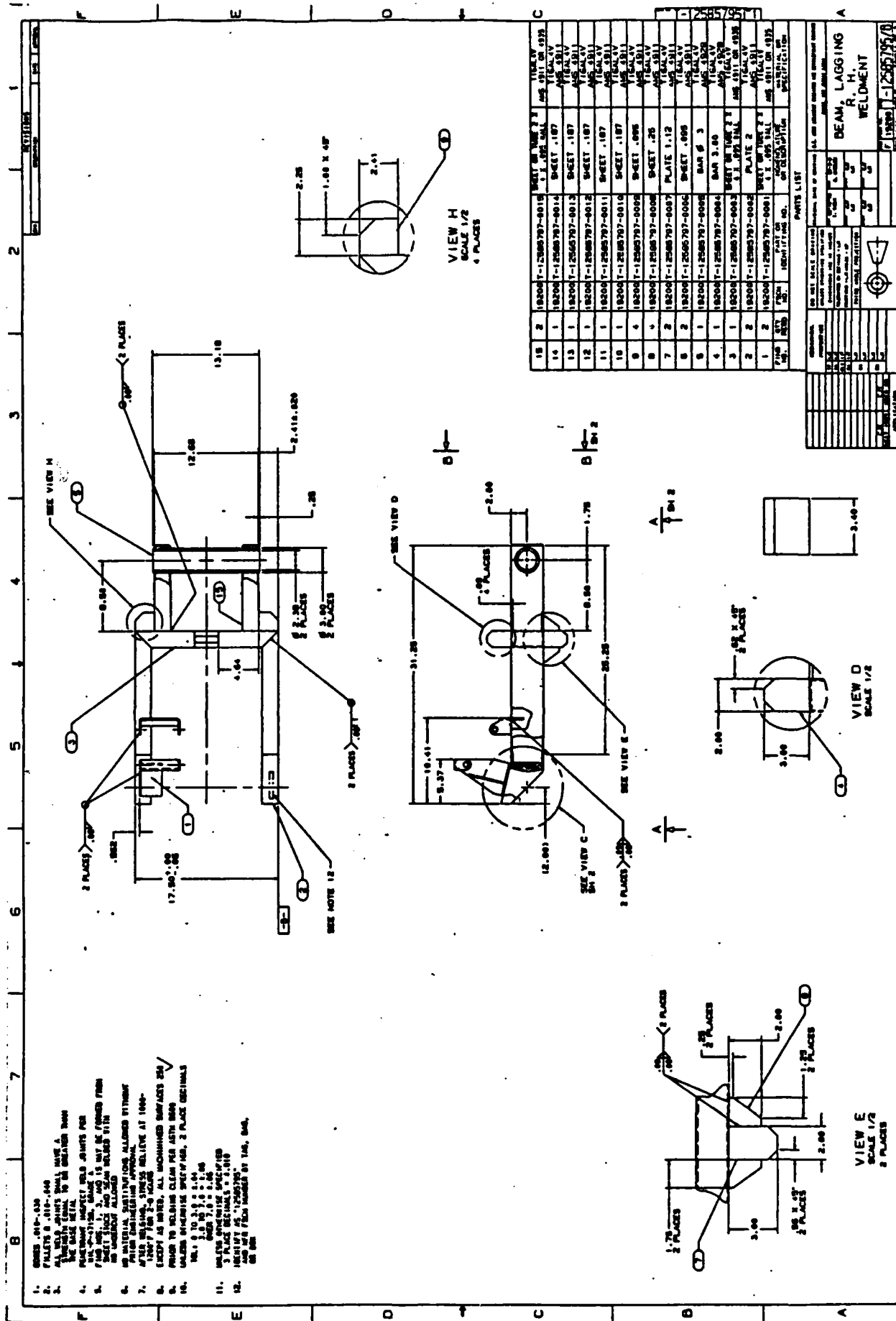


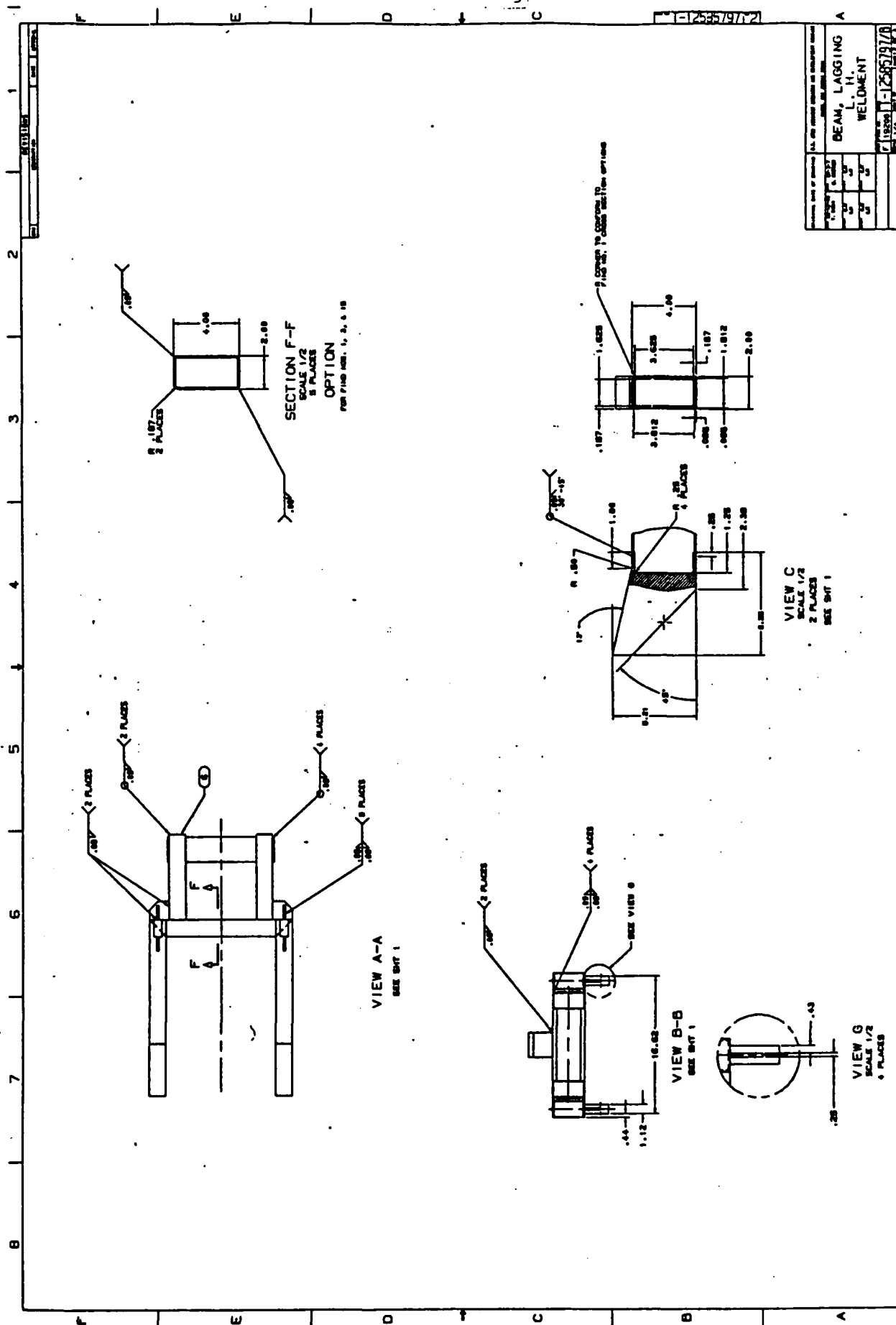
VIEW A
 SEE SHEET 1

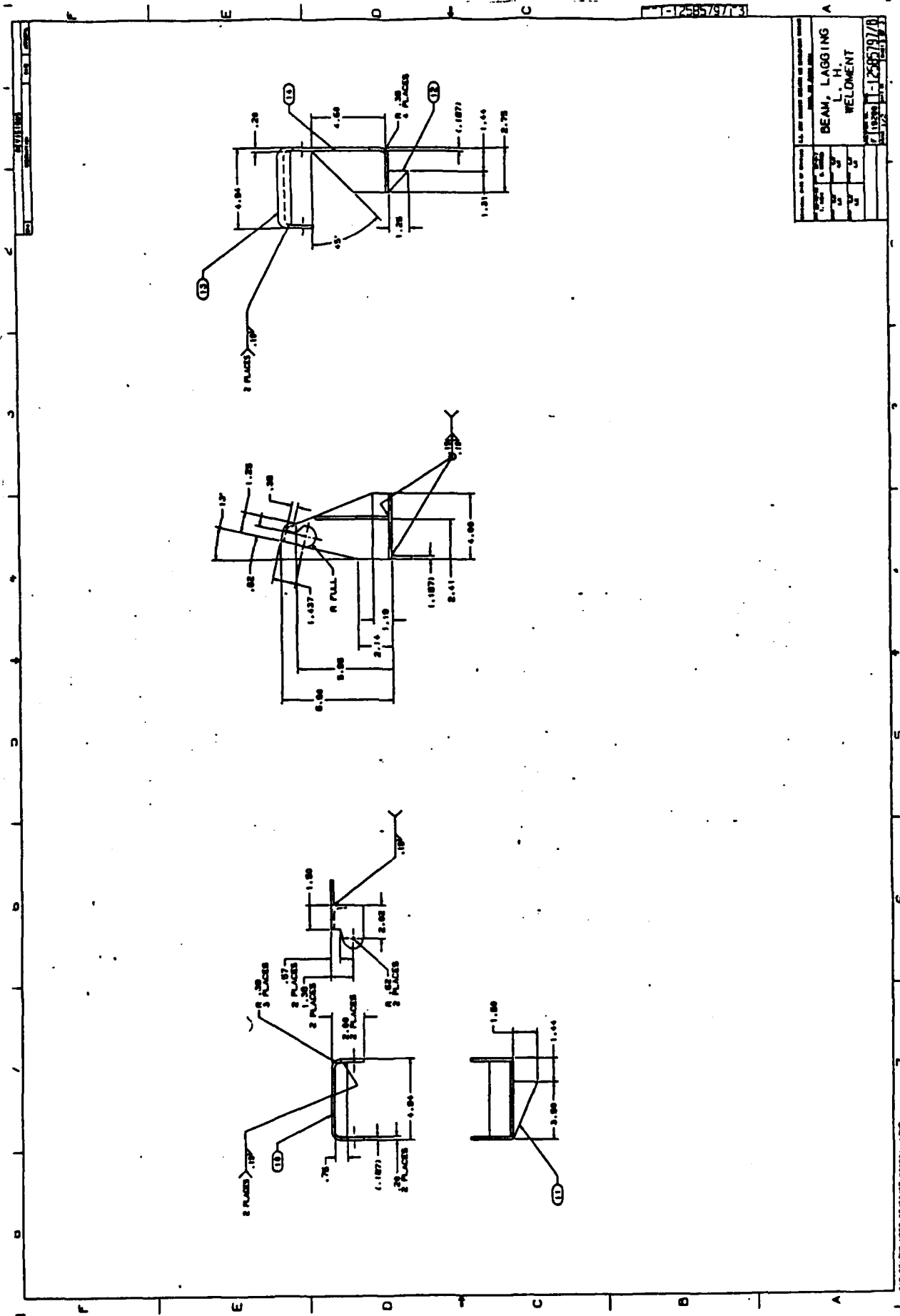


Part Name		Part Number	
BEAM LEADING		1-250791/B	
R. H. WELDMENT		1-250791/B	
WELDMENT		1-250791/B	

1. DIMS .010-.030
2. PALETS 2 - 010-040
3. ALL WELD JOINTS SHALL HAVE A MINIMUM 1/8" BEVEL
4. WELDING SHALL BE DONE IN ACCORDANCE WITH THE WELDING SPECIFICATION FOR WELDING OF STEEL
5. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE WELDING SPECIFICATION FOR WELDING OF STEEL
6. ALL MATERIALS SHALL BE ALLOWED WITHIN THE SPECIFICATION
7. ALL MATERIALS SHALL BE ALLOWED WITHIN THE SPECIFICATION
8. EXCEPT AS NOTED, ALL DIMENSIONS SHALL BE IN INCHES
9. PRIOR TO HOLDING CLEAR PER ASTM B240
10. UNLESS OTHERWISE SPECIFIED, 2 PLACE DECIMALS
11. UNLESS OTHERWISE SPECIFIED, 3 PLACE DECIMALS
12. UNLESS OTHERWISE SPECIFIED, 4 PLACE DECIMALS







SHEET NO. 1		SHEET TOTAL 2	
DRAWN BY: J. H. WELDON		CHECKED BY: J. H. WELDON	
DATE: 1-12-57		PROJECT: 1-12-57/17/B	
TITLE: BEAM, LAGGING WELDMENT		MATERIAL: L. H. WELDON	



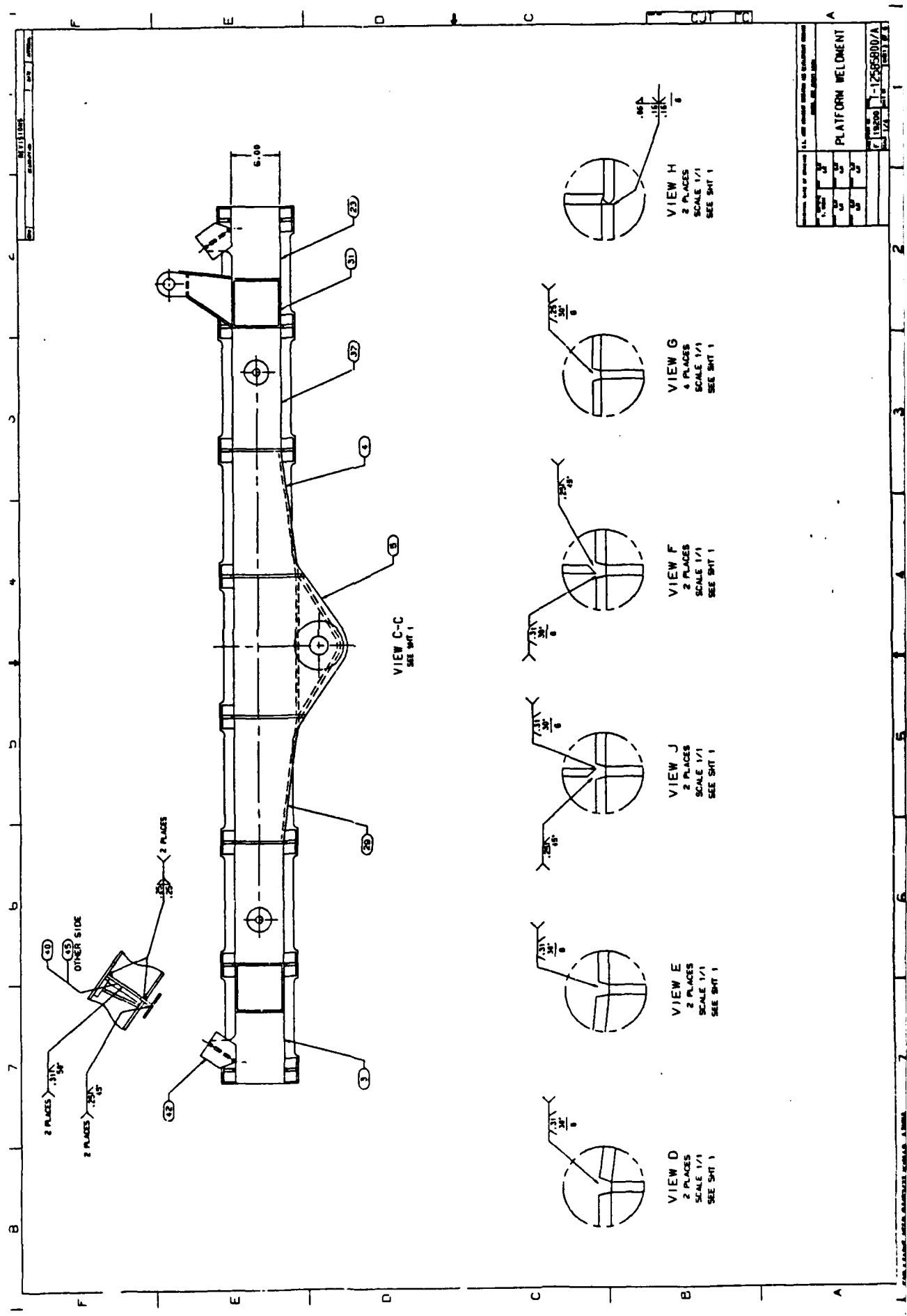
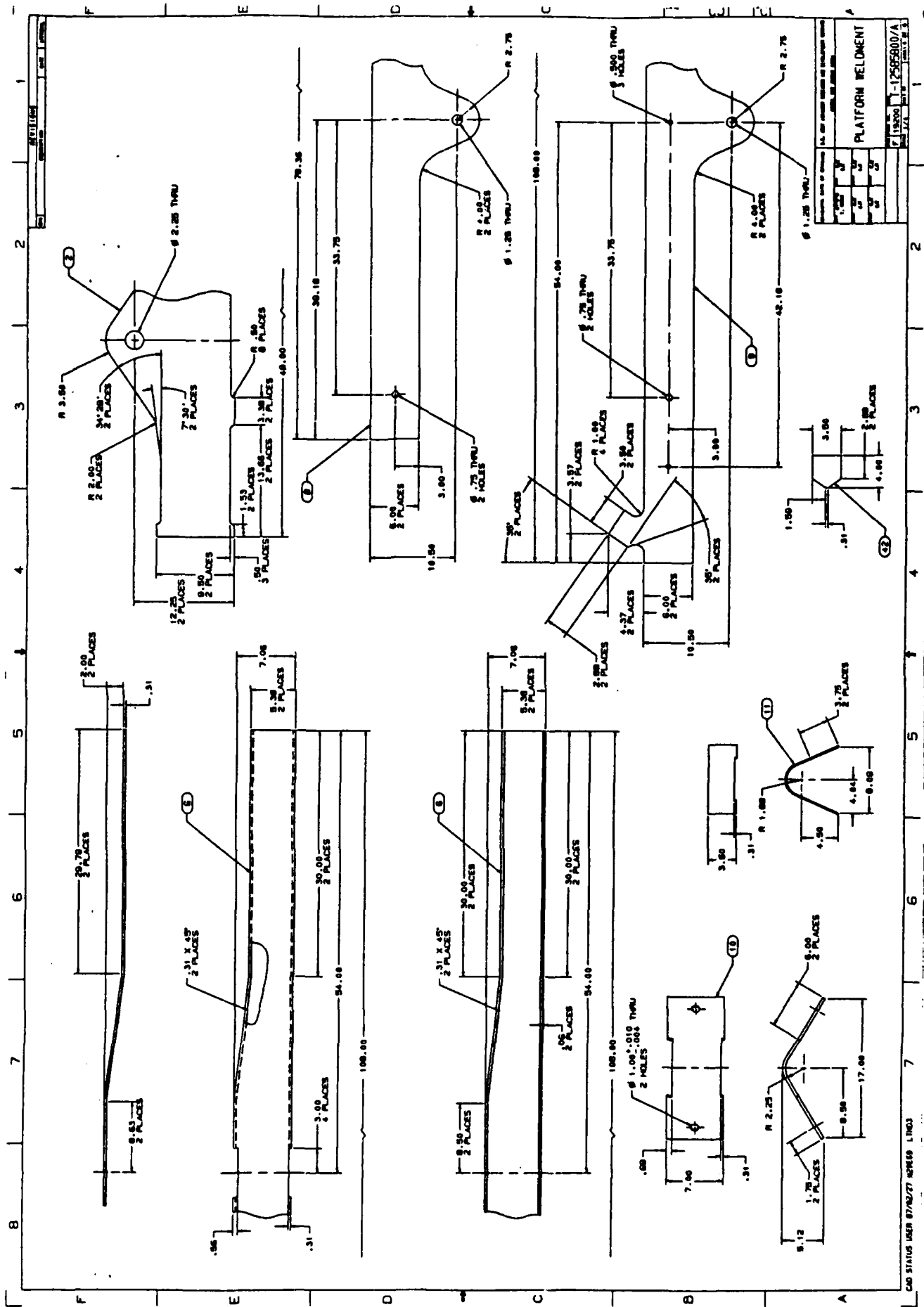
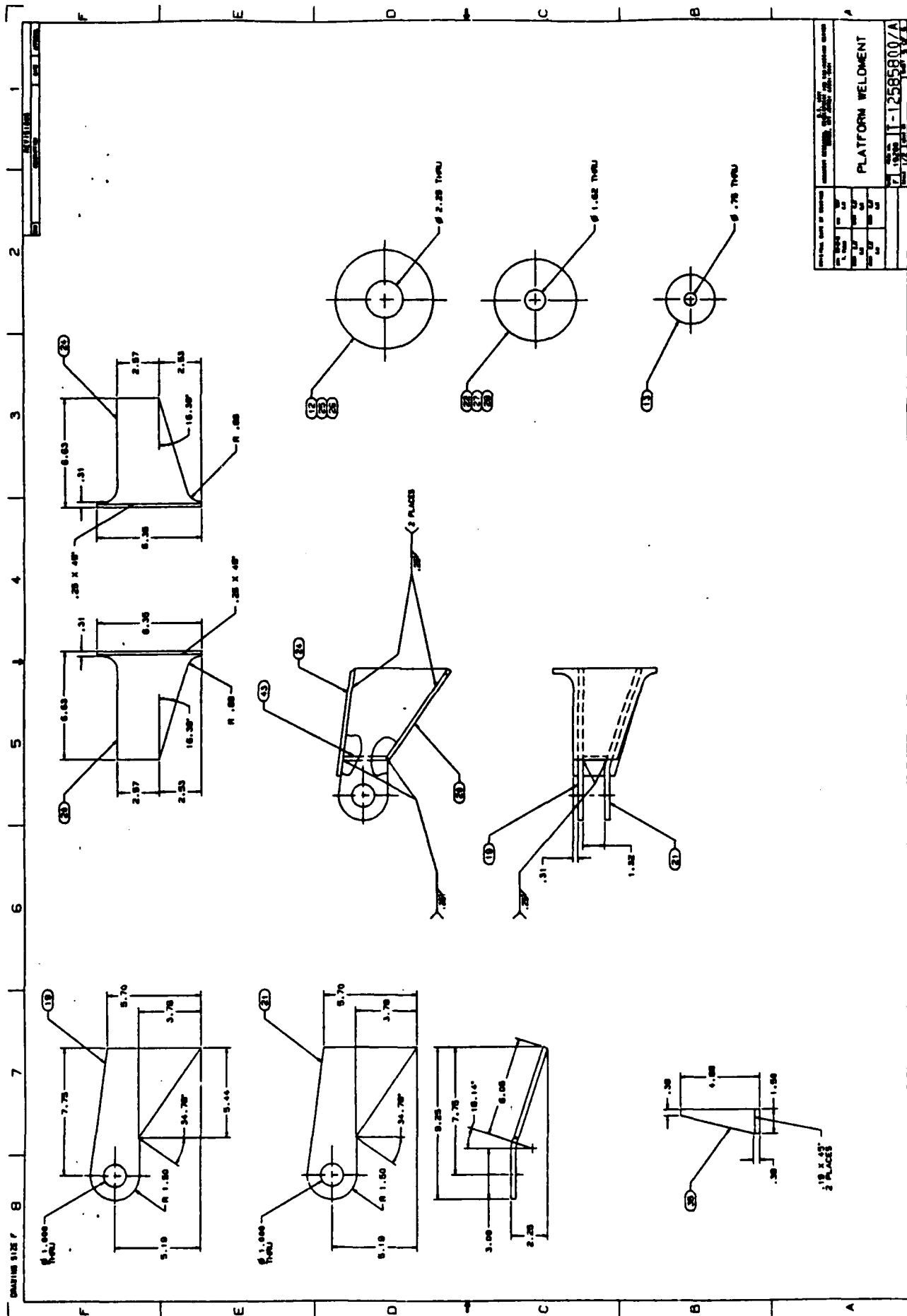
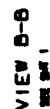


PLATE WELDMENT			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100







00001 1 000000 12/20/68 0000 000000 0000

SYN		REVISIONS		DATE		APPROVAL	
SYN		DESCRIPTION		DATE		APPROVAL	
<p>SUGGESTED SOURCE OF SUPPLY:</p> <p>FMC CORPORATION NORTHERN ORDNANCE DIVISION 4800 E. RIVER ROAD MINNEAPOLIS, MN 55421</p> <p>FMC PART NO.: 99-03287 FSCM NO.: 44114</p>							
PART NO.		<p>U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001</p> <p>PRIMER AUTOLOADER ASSEMBLY LESS ACTUATORS</p> <p>SIZE B FSCM NO. 19200 T-12585802 /A</p> <p>SCALE — UNIT WT. SHEET 1 of 1</p>					
DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		DRAFTSMAN		CHECKER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ENGR		ENGR		ENGR	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		ENGR		ENGR		ENGR	
THIRD ANGLE PROJECTION		ENGR		ENGR		ENGR	
MECHANICAL PROPERTIES		YP		TS		EL2	
		RA		BH		RH	
NEXT ASSY		USED ON					
APPLICATION							

FMC CORPORATION
NORTHERN ORDINANCE DIVISION
4800 E. RIVER ROAD
MINNEAPOLIS, MN 55421

FNC PART NO.: 99-03287

FSC# NO.: 44114

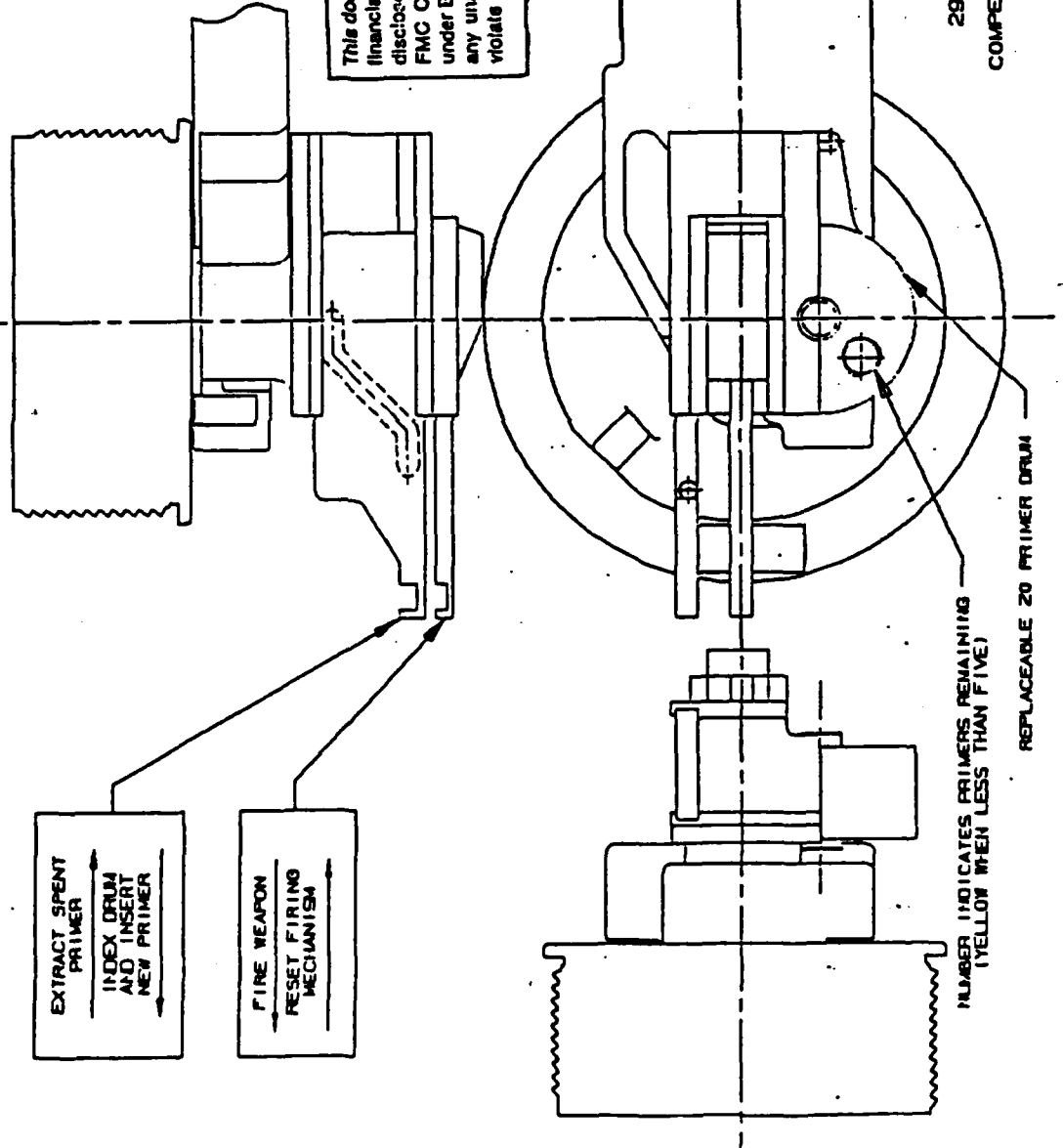
PART NO.

[illegible]

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

TIVIL

PRIMER AUTOLOADER AND LINKAGE



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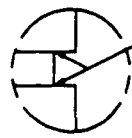
PRIMER AUTOLOADER
LESS ACTUATOR

12585802

COMPETITION SENSITIVE

STN	DESCRIPTION	DATE	APPROVAL
-----	-------------	------	----------

8. MATERIAL:
CRES
AISI 13800
UNS S13800



VIEW A
SCALE NONE

1
1984

2
1985

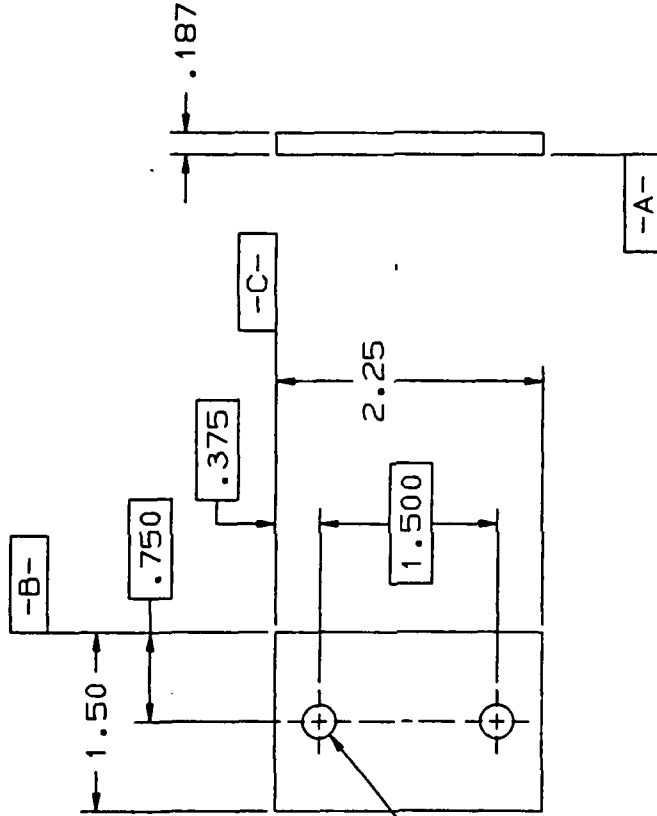
3
1986

DRAWING SIZE B

1. EDGES .005- .020
2. FILLETS R .005- .020
3. IDENTIFY AS "12585808"
AND MFR NUMBER BY BAG, TAG,
OR BOX
4. MATERIAL: TITANIUM

ϕ	ϕ	.060	(M)	A	B	C
	ϕ	.014	(M)	A		

ϕ .281⁺.008 THRU

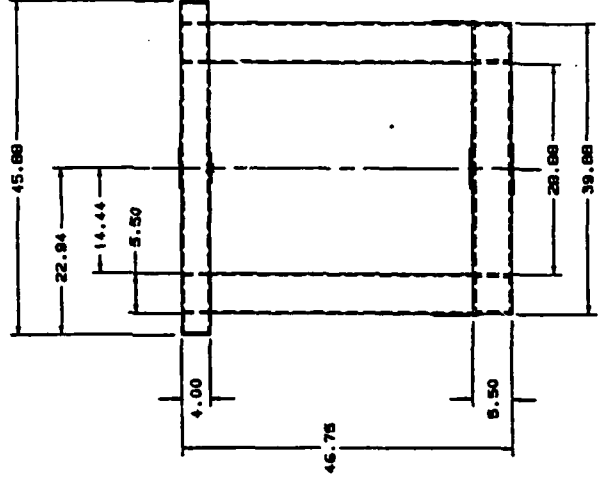
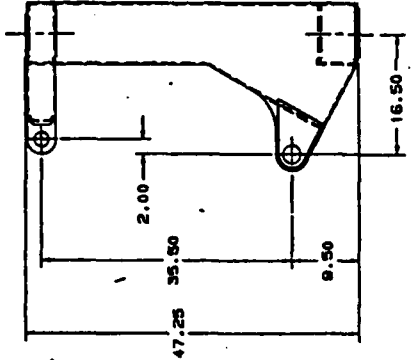
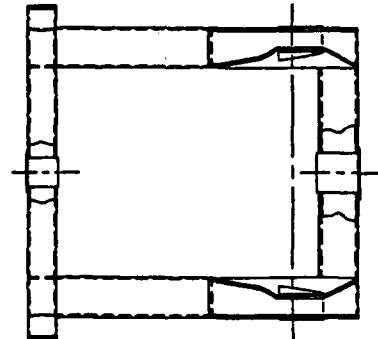
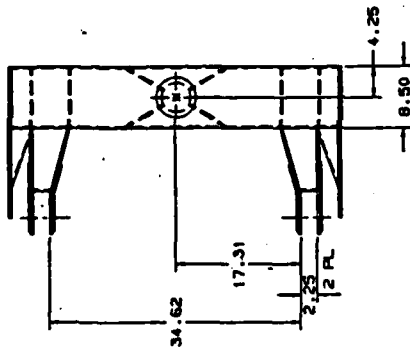


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		SPACER	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = ± .015 FRACTIONS = --- ANGLES = ± 2°		ORIGINAL DATE OF DRAWING DWN 87-3-5 S. HALVERSON ENGR ENGR ENGR	
THIRD ANGLE PROJECTION		SIZE B 19200	
APPLICATION		SCALE 1/1 UNIT WT CALC .09 LBS	
NEXT ASSY LTHD USED ON		SHEET 1 OF 1	

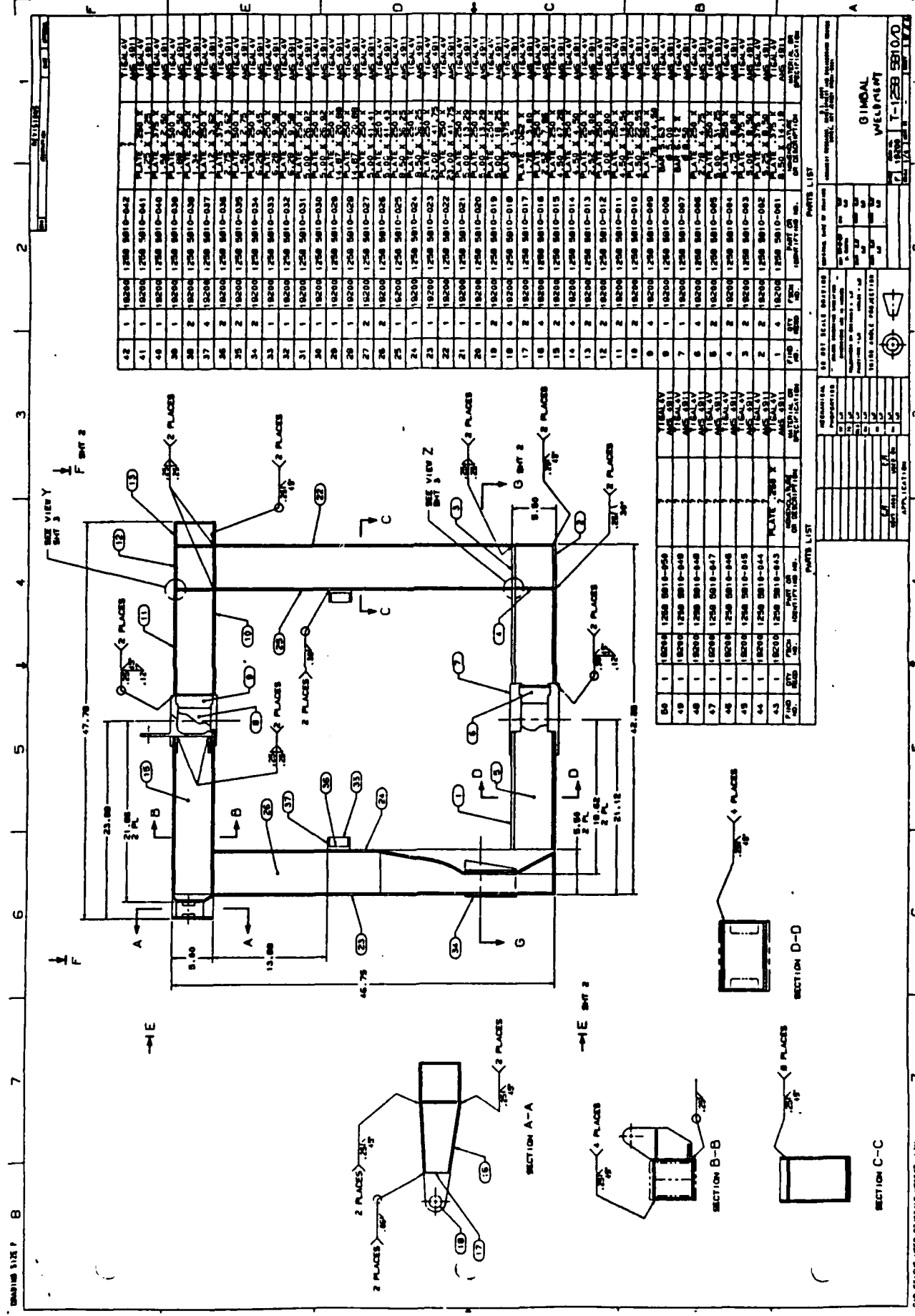
REVISIONS

PRELIMINARY



PART NO. -

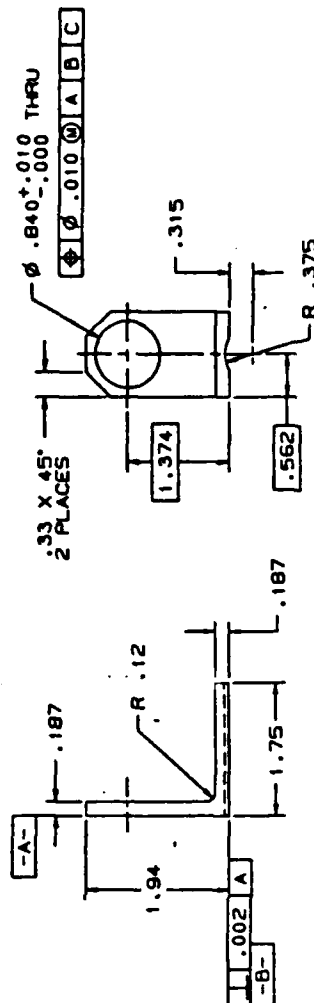
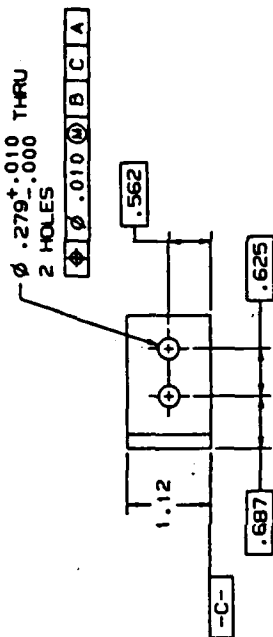
[illegible]




1

1

1. EDGES .010--.030
2. FILLETS R .010--.040
3. EXCEPT AS NOTED, ALL SURFACES 250 ✓
4. IDENTIFY AS "19200-T-12585812/A"
AND MFR PGM NUMBER BY TAG, BAG,
OR BOX PER MIL-STD-130
5. MATERIAL:
CARBON STEEL
ASTM A36
UNS K02600



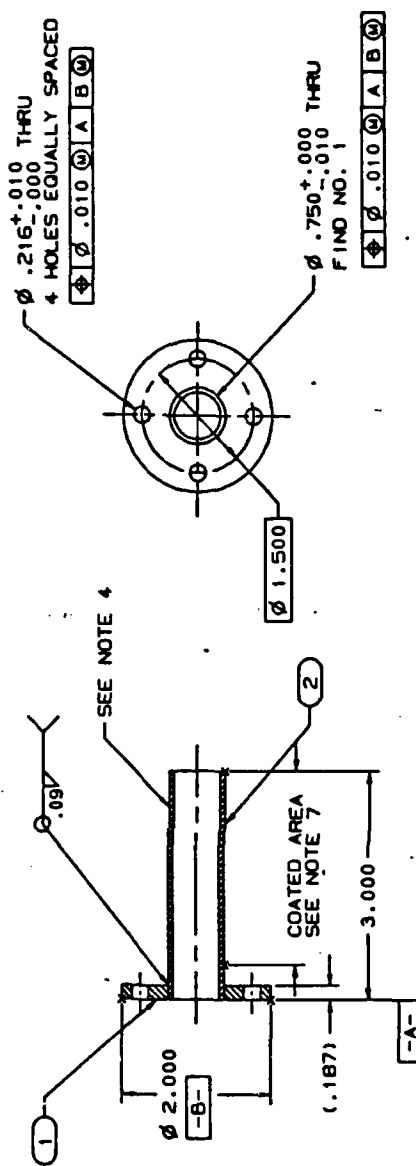
		MECHANICAL PROPERTIES		DO NOT SCALE BRATING		ORIGINAL DATE OF BRATING		U. S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER FORT MONTE, MISSISSIPPI 39091-0001			
		15	1/2	MINIMUM STRENGTH SPECIFICATIONS		DATE 05-11-87		BY C/J			
		16	1/2	DIMENSIONS AND 10		1. DATE		BY C/J			
		17	1/2	TOLERANCES ON DIMENSIONS - 1/16		DATE C/J		BY C/J			
		18	1/2	TOLERANCES ON DIMENSIONS - 1/16		DATE C/J		BY C/J			
		19	1/2	TOLERANCES ON DIMENSIONS - 1/16		DATE C/J		BY C/J			
		20	1/2	THIRD ANGLE PROJECTION		DATE C/J		BY C/J			
		C/J									
		NEXT ASST		USED ON							
C/J		C/J									

CAD STATUS USER 07/01/30 M20E94 LTND1


Rating	Size	Count
4	3	1
3	1	2
2	1	1

REVISIONS		
NO.	DESCRIPTION	DATE APPROVAL

1. EDGES .010-.030
2. FILLETS R .010-.040
3. ALL MACHINED SURFACES 250
MACHINE AFTER WELDING ✓
4. WELD MATERIAL PER ANSI/AWS A5.10-1980,
CLASS ????
5. GENERAL REQUIREMENTS PER MIL-W-22248,
CLASS ????
6. CHROMIUM PLATE .002 THICK
00-C-320, CLASS 2, TYPE ?
7. IDENTIFY AS "19200-T-12595813/A"
AND MFR FSCM NUMBER BY TAG, BAG,
OR BOX PER MIL-STD-130



FIND NO.	QTY REQD.	PART OR IDENTIFYING NO.	PCCM NO.	TUBE Ø .75		MATERIAL OR SPECIFICATION
				12565813-0002	.065 WALL	
2	1	19200				CARBON STEEL A151 1015-1025
1	1	19200		T-12565813-0001	SHEET .187	

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. JOB# AMERICAN ROPEWORK, INCORPORATED BOSTON, MASSACHUSETTS 02111-1001	
17	UT	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		mm 0.1-25 T. SCALE		GUIDE, SPRING	
18	UT	TOLERANCES ON DECIMALS = .000 & .001		mm 0.1-25			
19	UT	FRACTIONS =		mm 0.1-25			
20	UT	THIRD ANGLE PROJECTION		mm 0.1-25			
21	UT			mm 0.1-25			
CUT		CUT		CUT		PART NO. T-12585813/A SCALE 1/1 UNIT IN FIRST 1 OF 1	
NEXT ASSY		USED ON		CUT			
APPLICATION							

GUIDE, SPRING

DATE	1/1	UNIT	ST	100
PCO	19200	T-12585813/A		

4. MATERIAL: COMPOSITE FIBER EPOXY



DRAWING SIZE 0 B

7

6

5

4

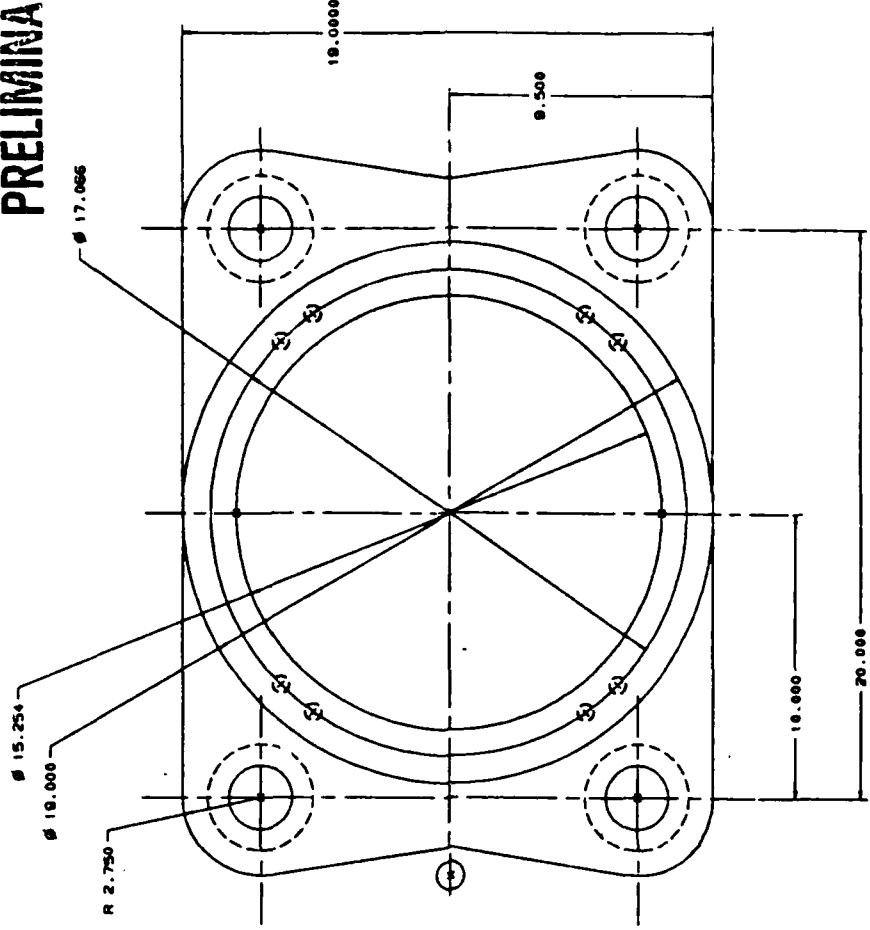
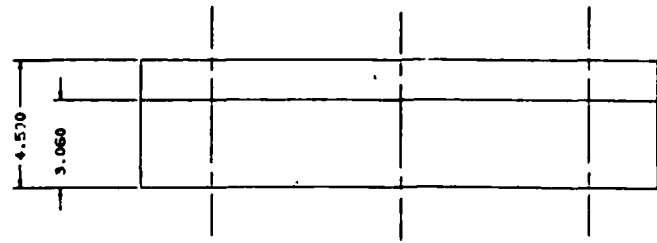
3

2

1

DATE: 11/15/87
BY: [signature]
CHECKED: [signature]

PRELIMINARY



PART NO. LJT

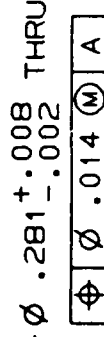
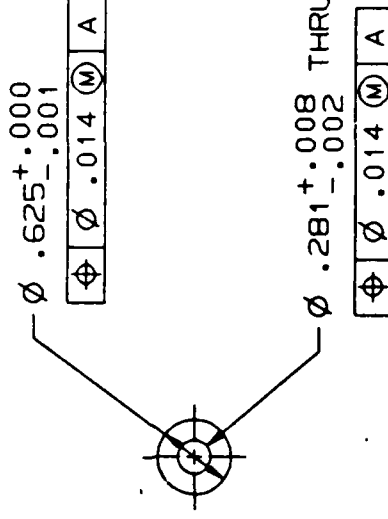
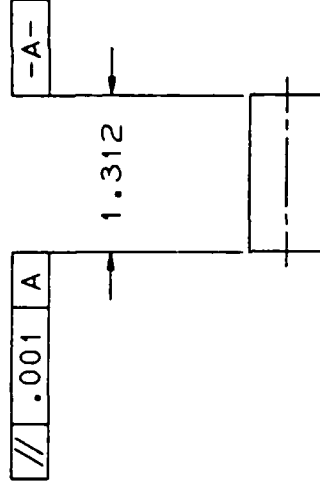
MECHANICAL PROPERTIES		SD TEST SCALE RESULTS		TENSILE BAR W/ MARKS		TENSILE BAR W/ MARKS	
YIELD STRENGTH	10	MINIMUM	10	YIELD STRENGTH	10	MINIMUM	10
TENSILE STRENGTH	10	MINIMUM	10	TENSILE STRENGTH	10	MINIMUM	10
ELONGATION	10	MINIMUM	10	ELONGATION	10	MINIMUM	10
REDUCTION OF AREA	10	MINIMUM	10	REDUCTION OF AREA	10	MINIMUM	10
IMPACT	10	MINIMUM	10	IMPACT	10	MINIMUM	10
WELD	10	MINIMUM	10	WELD	10	MINIMUM	10
APPLICATION	10	MINIMUM	10	APPLICATION	10	MINIMUM	10

BAND, OUTER BREACH

1-12585816/A

DRAWING SIZE B

1. EDGES .005 \pm .020
2. IDENTIFY AS "12585817"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL: NYLON



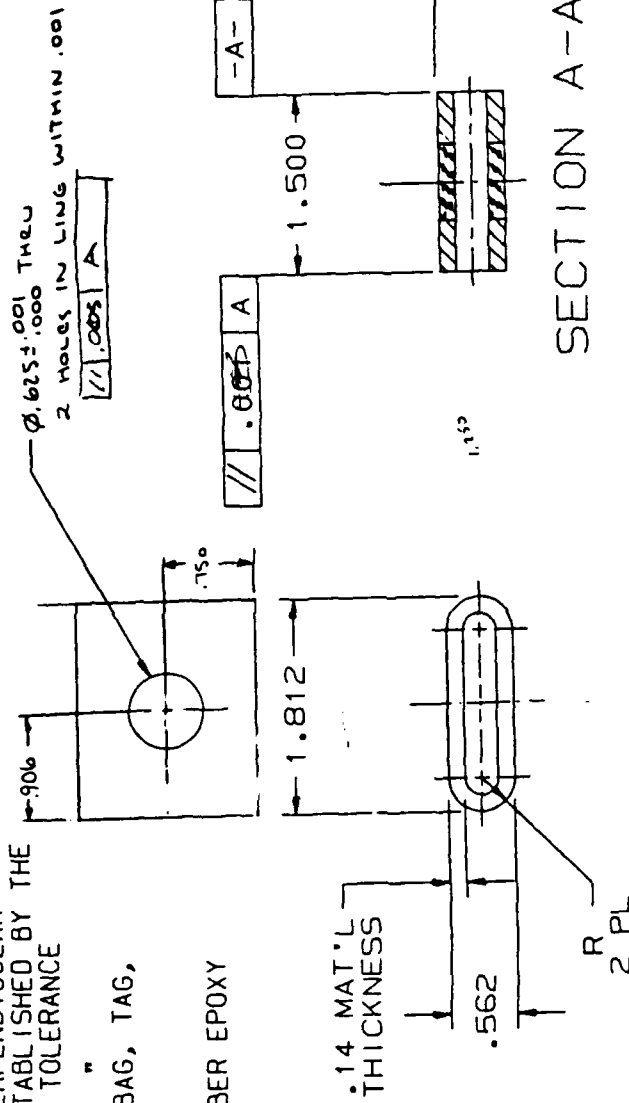
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING		DRAW 87-2-18 S. HALVERSON		CMM	
SPACER OR PIVOT?		PIN, PIVOT		ENDR		ENDR	
SIZE B		FSCM NO. 19200		T-12585817/A		SCALE 1/1	
UNIT WT CALC .03 LBS		SHEET 1 OF 1		UNIT WT CALC .03 LBS		SHEET 1 OF 1	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS = \pm .015	
FRACTIONS = ---		ANGLES = \pm 2°		THIRD ANGLE PROJECTION			
MECHANICAL PROPERTIES		YP		TS		EL2	
RA		BH		RH		LTHD	
NEXT ASSY		USED ON		APPLICATION		CAN STATUS IJFR 87/02/27 M20F72 1 TI TRAY	

7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

1. EDGES .005--.020
2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
3. IDENTIFY AS " " AND MFR NUMBER BY BAG, TAG, OR BOX
4. MATERIAL: CARBON FIBER EPOXY



SECTION A-A

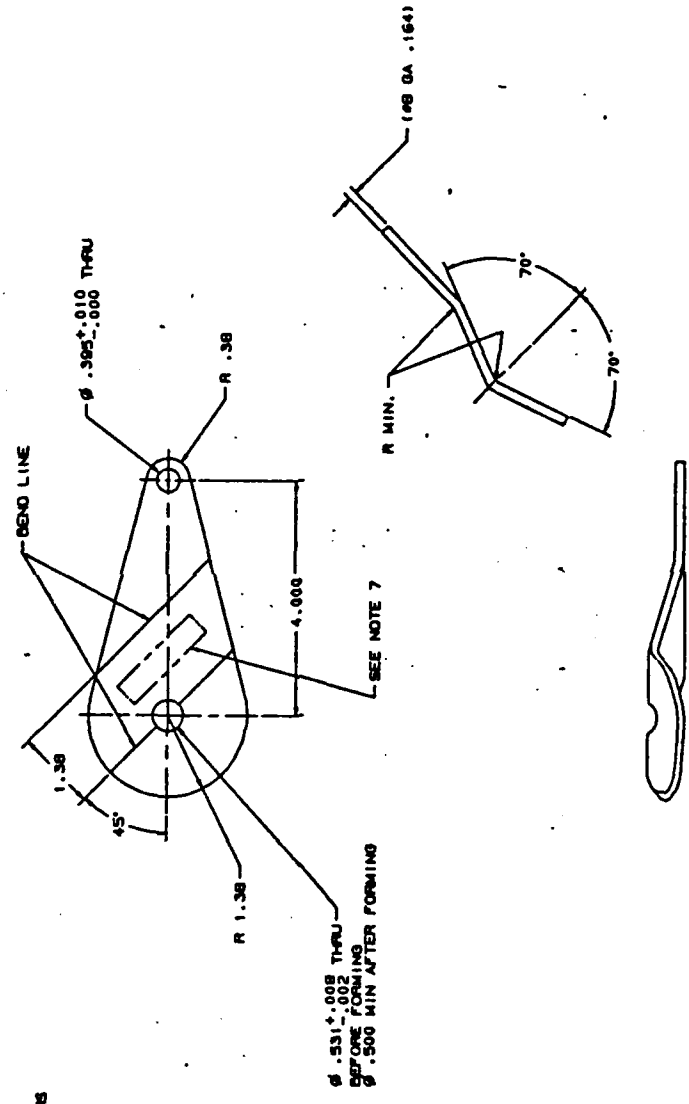
PART NO. 2

[illegible]

CAD STATUS USER 87/02/19 M20E72 LTLTRAY

CASTING SIZE 0 B 7 6 5 4 3 2 1

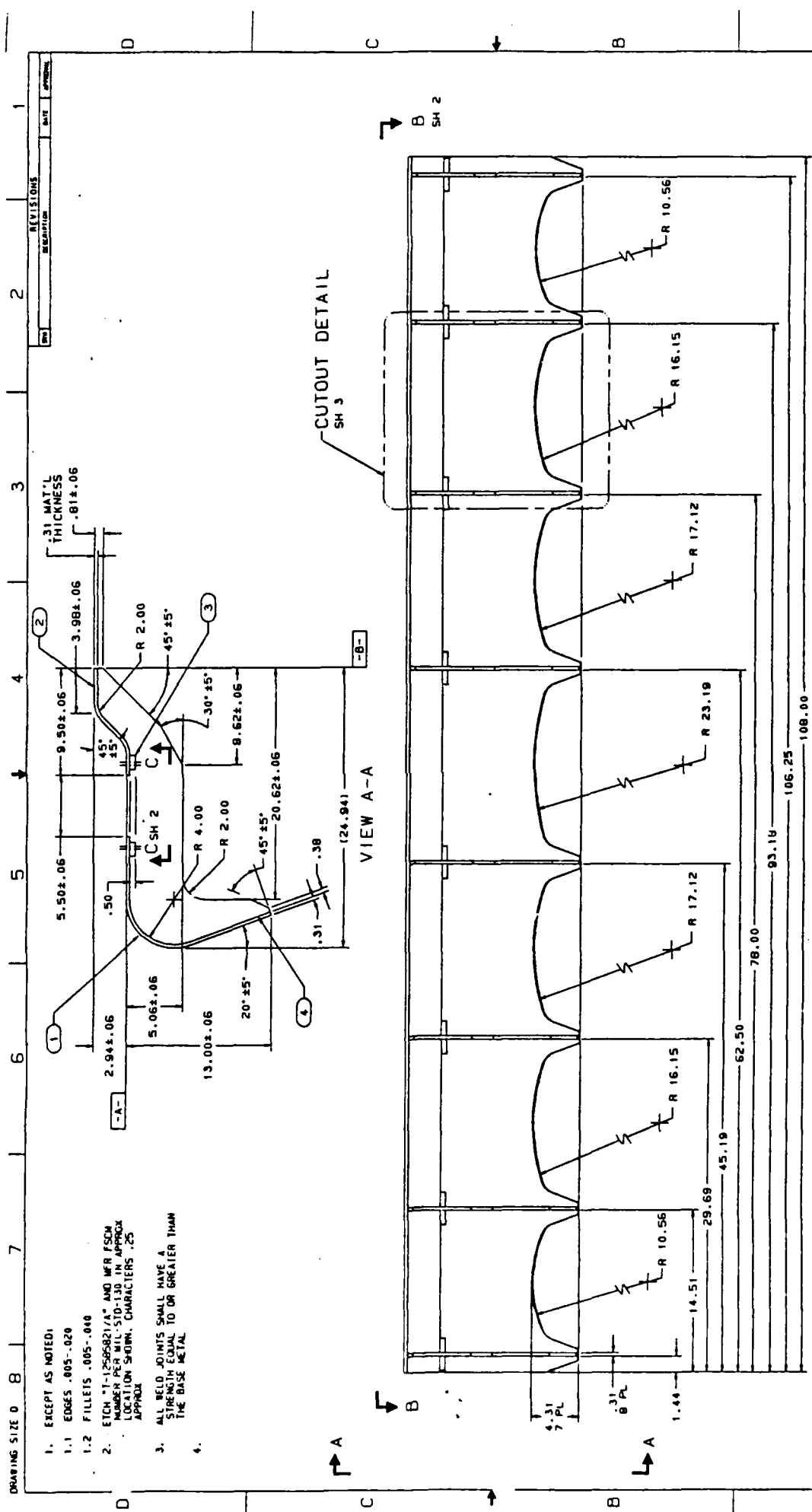
1. DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY AFTER PLATING
2. EDGES .010-.030
3. FILLETS R .010-.040
4. QUENCH AND TEMPER PER MS13554 TO 240-320 BRINELL
5. NITRIDE HARDEN PER MS13554 TO ROCKWELL 15N 90 MIN SURFACE HARDNESS AND TO .010 MIN CASE DEPTH MEASURED TO 50 ROCKWELL C EQUIVALENT
6. NICKEL PLATE .0002-.0015 THICK 60-N-290, CLASS 1
7. STEEL STAMP "12585819/A LH" AND AFR YSCH NUMBER PER MIL-STD-130 IN APPROX LOCATION SHOWN. CHARACTERS .12 APPROX
8. ALL SURFACES 125
9. MATERIAL: CARBON STEEL A151 1015-1025



DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY AFTER PLATING		ORIGINAL DATE OF MATING	
EDGES .010-.030		DATE: 12/1/64	
FILLETS R .010-.040		DATE: 12/1/64	
QUENCH AND TEMPER PER MS13554 TO 240-320 BRINELL		DATE: 12/1/64	
NITRIDE HARDEN PER MS13554 TO ROCKWELL 15N 90 MIN SURFACE HARDNESS AND TO .010 MIN CASE DEPTH MEASURED TO 50 ROCKWELL C EQUIVALENT		DATE: 12/1/64	
NICKEL PLATE .0002-.0015 THICK 60-N-290, CLASS 1		DATE: 12/1/64	
STEEL STAMP "12585819/A LH" AND AFR YSCH NUMBER PER MIL-STD-130 IN APPROX LOCATION SHOWN. CHARACTERS .12 APPROX		DATE: 12/1/64	
ALL SURFACES 125		DATE: 12/1/64	
MATERIAL: CARBON STEEL A151 1015-1025		DATE: 12/1/64	
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING	
TENSILE STRENGTH		MINIMUM PROPORTIONAL LIMIT	
ELONGATION		REDUCED SECTION	
HARDNESS		MULTIPLE POINTS ON THE HILLS - 125	
THERMAL STABILITY		THERMAL STABILITY	
CORROSION RESISTANCE		CORROSION RESISTANCE	
APPLICATION		APPLICATION	
12585819/A		12585819/A	

LEVER, PARK BRAKE
L. H.

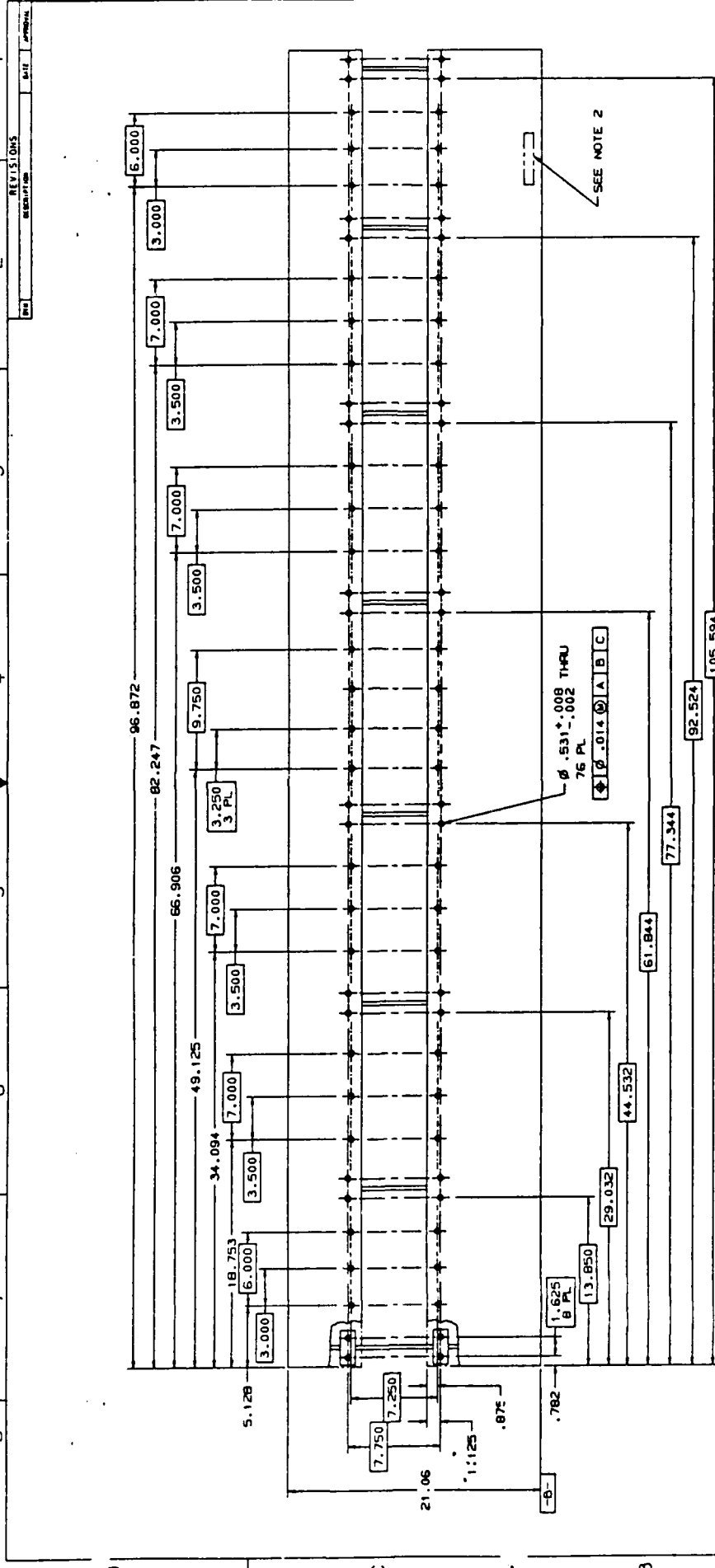
12585819/A
12585819/A



DRAWING SIZE 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1. EXCEPT AS NOTED: 1.1 EDGES .005-.020 1.2 FILLETS .005-.040 2. ETCH "T-12585821/A" AND MFR FSCM NUMBER PER MIL-STD-130 IN APPROX LOCATION SHOWN. CHARACTERS .25 APPROX 3. ALL WELD JOINTS SHALL HAVE A STRENGTH EQUAL TO OR GREATER THAN THE BASE METAL 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DRAWING SIZE D 8

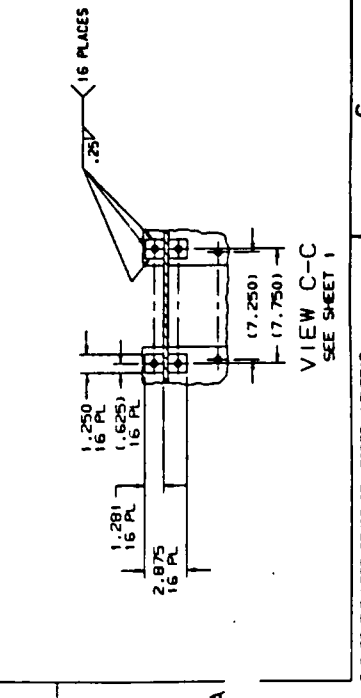
1 2 3 4 5 6 7



VIEW B-B
SEE SHEET 1

ITEM NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	19200 T-12585821-0001	PLATE .312		
2	1	19200 T-12585821-0002	PLATE .500 X 1.25 X 2.88		
3	16	19200 T-12585821-0003	PLATE .312		
4	8	19200 T-12585821-0004	PLATE .500 X 1.25 X 2.88		

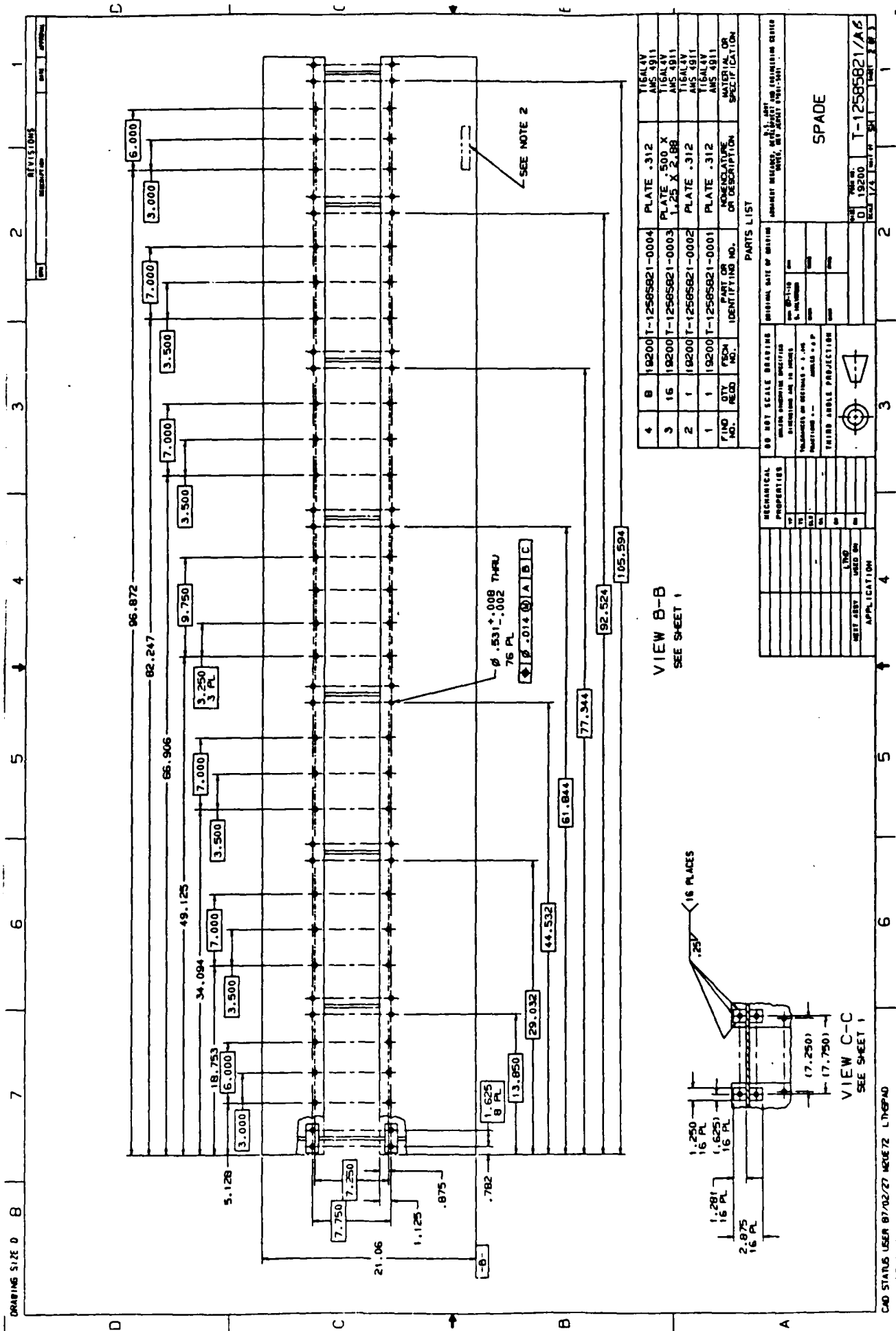
ITEM NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	19200 T-12585821-0001	PLATE .312		
2	1	19200 T-12585821-0002	PLATE .500 X 1.25 X 2.88		
3	16	19200 T-12585821-0003	PLATE .312		
4	8	19200 T-12585821-0004	PLATE .500 X 1.25 X 2.88		

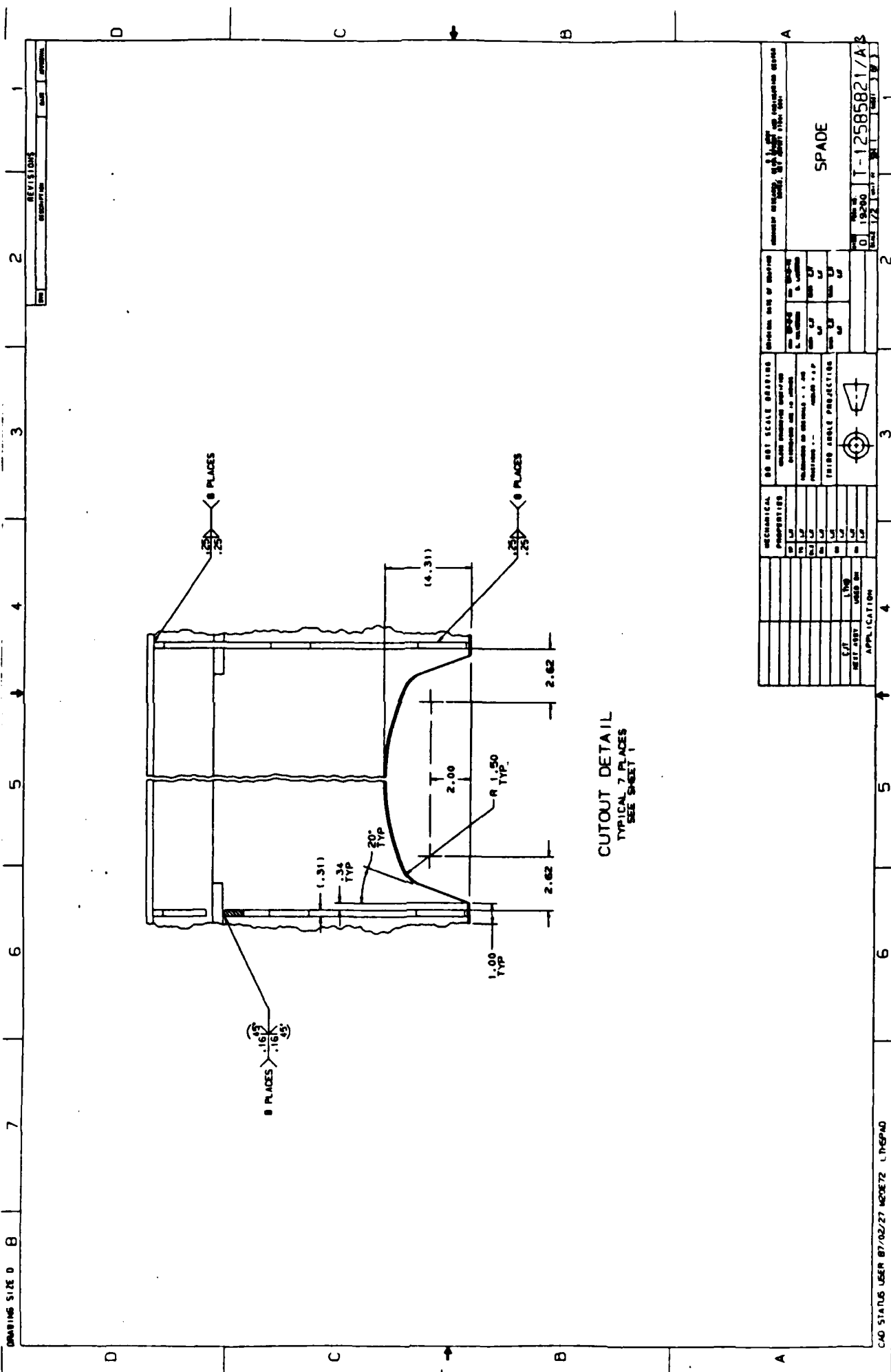


VIEW C-C
SEE SHEET 1

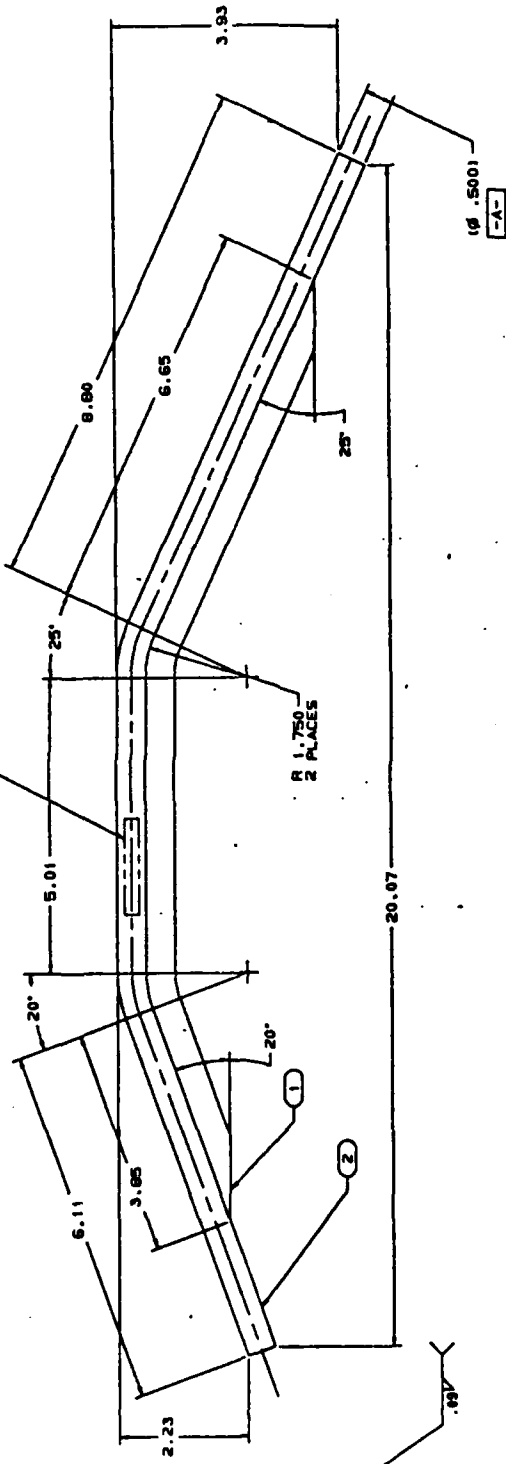
ITEM NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	19200 T-12585821-0001	PLATE .312		
2	1	19200 T-12585821-0002	PLATE .500 X 1.25 X 2.88		
3	16	19200 T-12585821-0003	PLATE .312		
4	8	19200 T-12585821-0004	PLATE .500 X 1.25 X 2.88		

ITEM NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	19200 T-12585821-0001	PLATE .312		
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3	16	19200 T-12585821-0003	PLATE .312		
4	8	19200 T-12585821-0004	PLATE .500 X 1.25 X 2.88		





1. EDGES .010-.030
2. ALL MACHINED SURFACES 250
3. WELD MATERIAL PER AWS/AAS AS.10-1980, CLASS 7777
4. GENERAL REQUIREMENTS PER MIL-9-22240, CLASS 7777
5. STEEL STAMP "19200-T-12585822-A"
6. AND WFR FSON NUMBER PER MIL-STD-130 IN APPROX LOCATION SHOWN. CHARACTERS .12 APPROX



375-16UNC-2B
 1.25 MIN FULL THREAD DEPTH
 1.25 MAX HOLE DEPTH
 CSA 90° ±10° X Ø .412±.01
 ONE HOLE
 2 PLACES
 .010 (A)

PARTS LIST		ORIGINAL DATE OF ISSUANCE		ORIGINAL DATE OF REVISION	
QTY	REQD	FROM	TO	REASON	BY
2	1	19200	T-12585822-0002	ROUND Ø .50	A. ALLOY
1	1	19200	T-12585822-0001	PLATE .50	AA 6061-T6, 16SI
1	1	19200	T-12585822-0001	1/2" X 1/2" X 1/2"	UNS A86861
1	1	19200	T-12585822-0001	1/2" X 1/2" X 1/2"	MATERIAL OR
1	1	19200	T-12585822-0001	1/2" X 1/2" X 1/2"	SPECIFICATION

MECHANICAL PROPERTIES		TENSILE		YIELD	
TEMP	UNIT	TEMP	UNIT	TEMP	UNIT
70	°F	70	°F	70	°F
100	°F	100	°F	100	°F
150	°F	150	°F	150	°F
200	°F	200	°F	200	°F
250	°F	250	°F	250	°F
300	°F	300	°F	300	°F
350	°F	350	°F	350	°F
400	°F	400	°F	400	°F
450	°F	450	°F	450	°F
500	°F	500	°F	500	°F
550	°F	550	°F	550	°F
600	°F	600	°F	600	°F
650	°F	650	°F	650	°F
700	°F	700	°F	700	°F
750	°F	750	°F	750	°F
800	°F	800	°F	800	°F
850	°F	850	°F	850	°F
900	°F	900	°F	900	°F
950	°F	950	°F	950	°F
1000	°F	1000	°F	1000	°F

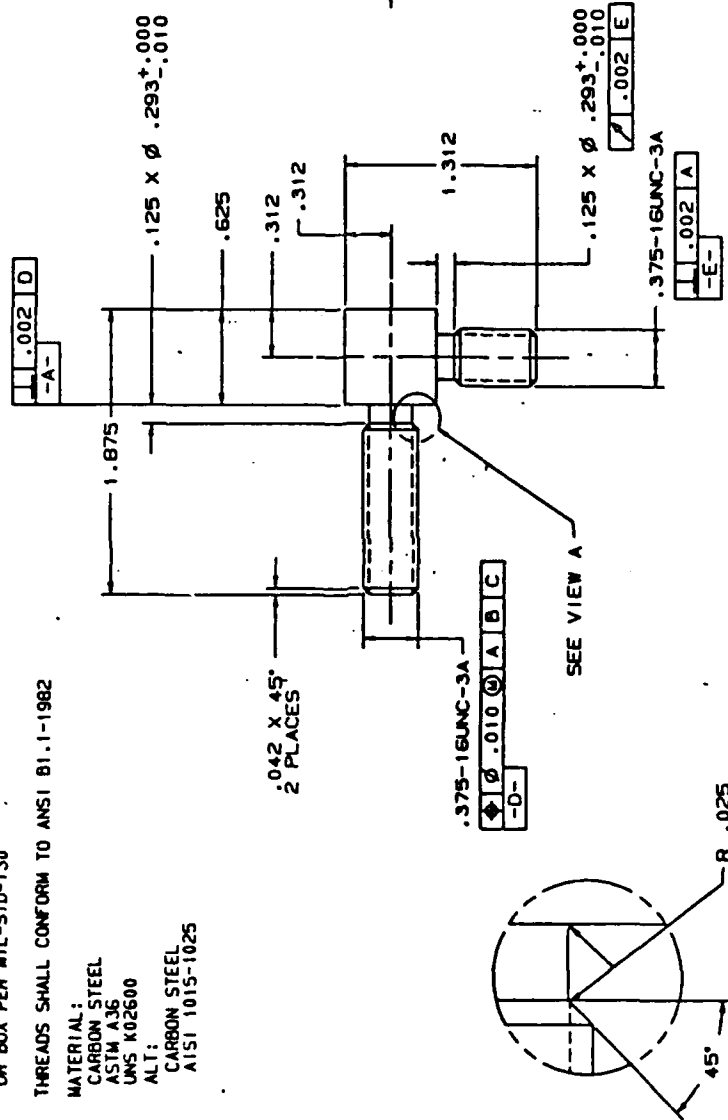
APPLICATION		TEST DATA	
TEST	DATA	TEST	DATA
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10

ROD, PARK BRAKE

Part No. T-12585822/A
 Rev. 1/1

DRAWING SIZE C

1. EDGES .010- .030
2. FILLETS R .010- .040
3. EXCEPT AS NOTED, ALL SURFACES 250 ✓
4. IDENTIFY AS "19200-T-12565823/A"
AND MFR FSCM NUMBER BY TAG, BAG,
OR BOX PER MIL-STD-130
5. THREADS SHALL CONFORM TO ANSI B1.1-1982
6. MATERIAL :
CARBON STEEL
ASTM A36
UNS K02600
ALT :
CARBON STEEL
AISI 1015-1025



VIEW A
SCALE 4/1
2 PLACES

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING	ORIGINAL DATE OF DRAWING	U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER BOWLING GREEN, MISSISSIPPI 39001-5000	
10	UT	UT	UT	UT	<div> <div> </div> <div> <p>THIRD ANGLE PROJECTION</p> </div> </div>
11	UT	UT	UT	UT	
12	UT	UT	UT	UT	
13	UT	UT	UT	UT	
14	UT	UT	UT	UT	
15	UT	UT	UT	UT	UT
16	UT	UT	UT	UT	UT
17	UT	UT	UT	UT	UT
18	UT	UT	UT	UT	UT
19	UT	UT	UT	UT	UT
20	UT	UT	UT	UT	UT
21	UT	UT	UT	UT	UT
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89					

CAD STATUS USER 87/01/24 M20E94 LYH01

DRAWING SIZE C

4

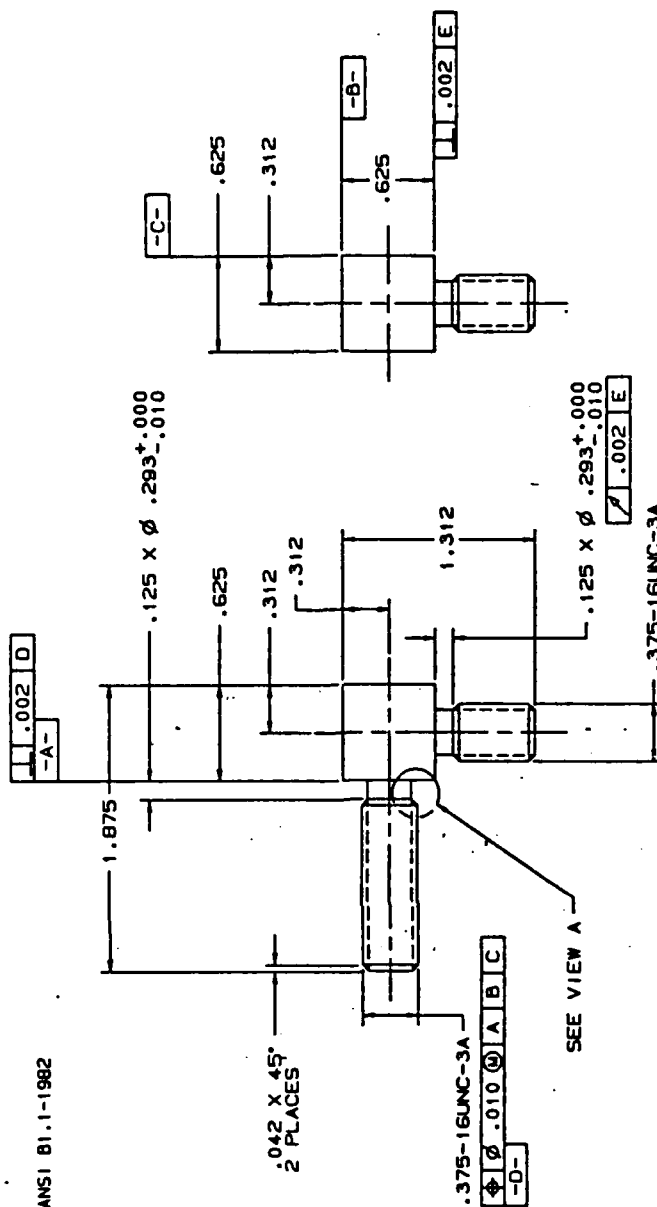
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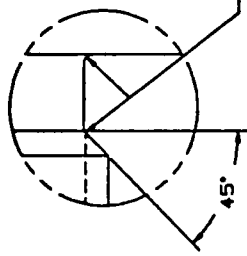
1

REV	DESCRIPTION	DATE	APPROVAL
1			

1. EDGES .010-.030
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 250/
4. IDENTIFY AS "19200-T-12585823/A" AND MFR FSCM NUMBER BY TAG, BAG, OR BOX PER MIL-STD-130
5. THREADS SHALL CONFORM TO ANSI B1.1-1982
6. MATERIAL:
CARBON STEEL
ASTM A36
UNS K02600
ALT:
CARBON STEEL
AISI 1015-1025



SEE VIEW A



VIEW A
SCALE 4/1
2 PLACES

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF BRASSING		ANNEALING, REWORK, AND ENGINEERING CENTER	
YF	LF	UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES	DATE	BY	DATE	BY
TS	LF	TOLERANCES ON DECIMALS: .005 = FINE	FRACTIONS: 1/16 = 0.0625	DATE	BY	DATE	BY
EL	LF	THIRD ANGLE PROJECTION		DATE	BY	DATE	BY
RA	LF			DATE	BY	DATE	BY
BR	LF			DATE	BY	DATE	BY
HA	LF			DATE	BY	DATE	BY
HT	LF			DATE	BY	DATE	BY
CT	LF			DATE	BY	DATE	BY
HT ASSY	LF			DATE	BY	DATE	BY
USED ON	LF			DATE	BY	DATE	BY
APPLICATION							

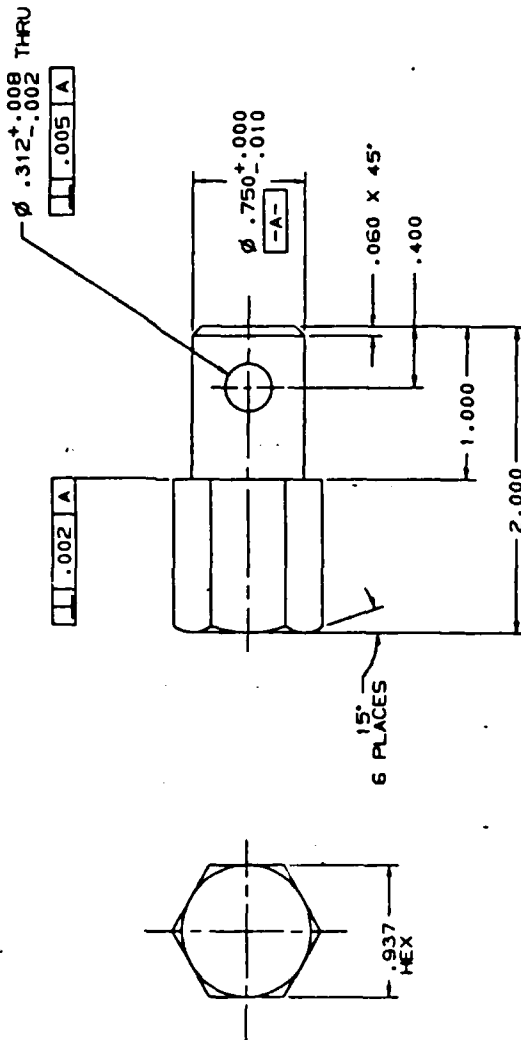
ROD, END
PARK BRAKE

19200	T-12585823/A/B
1	OF 1

CAD STATUS USER 87/01/24 M20E94 LTH01

4

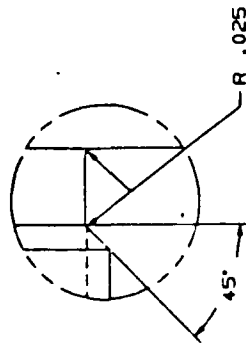
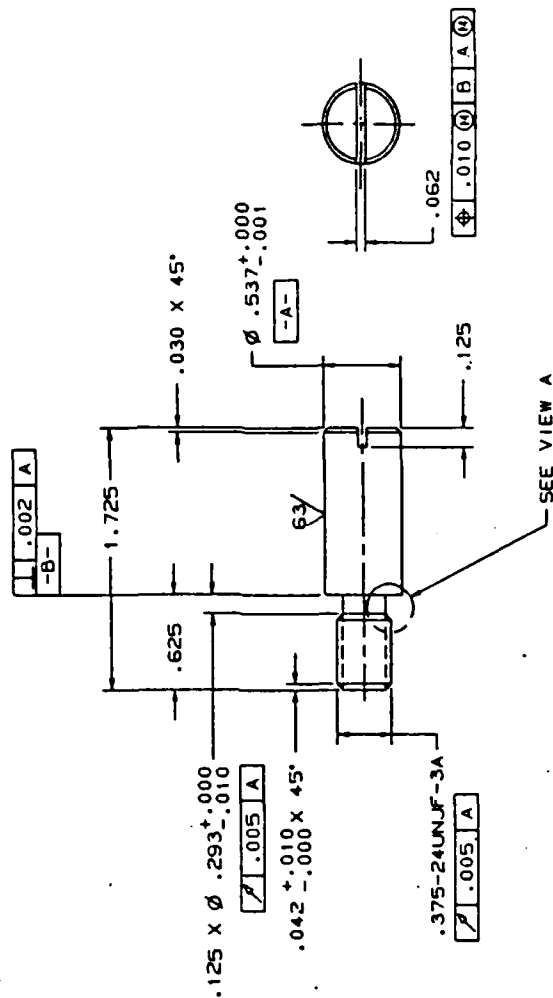
1. EDGES .010-.030.
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 125/ ✓
4. IDENTIFY AS "19200-T-12585825/A"
AND MFR FSCM NUMBER BY TAG, BAG,
OR BOX PER MIL-STD-130
5. QUENCH AND TEMPER PER WS13554
TO 30-50 ROCKWELL C
6. MATERIAL:
CARBON STEEL
A51M A36
UNS K02600
ALT:
CARBON STEEL
AISI 1015-1025

[illegible]


CAO STATUS USER 07/01/30 M20E94 LTWD1

REVISIONS		
SYN	DESCRIPTION	DATE

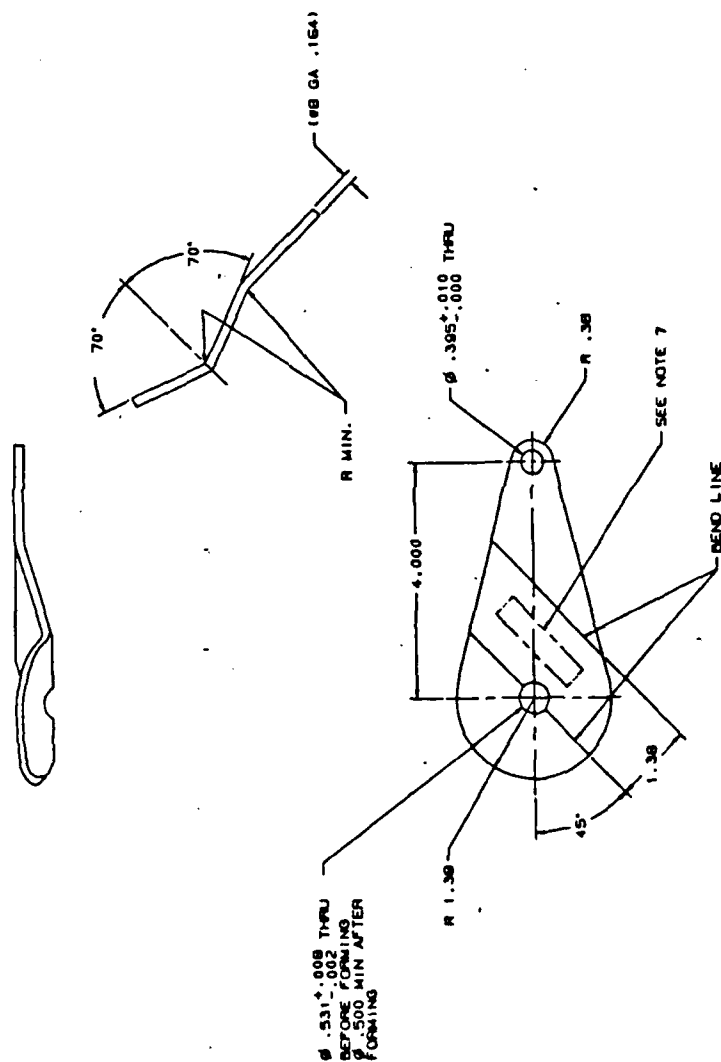
1. DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY BEFORE PROTECTIVE COATING
2. EXCEPT AS NOTED:
FILLETS R .010-.040
ALL MACHINED SURFACES 125 ✓
3. EDGES .010-.030
4. THREADS SHALL CONFORM TO ANSI B1.1-1982
5. QUENCH AND TEMPER PER MS13554 TO 30-35 ROCKWELL C
6. MAGNETIC PARTICLE INSPECT ACCEPTANCE PER MIL-M-47230, GRADE A FOR ENTIRE ITEM
7. MANGANESE PHOSPHATE DDD-P-16232, TYPE M, CLASS 1, OR LIGHT ZINC PHOSPHATE PER IT-C-490, TYPE 1. FINISH COAT ALL SURFACES WITH SOLID FILM LUBRICANT MIL-L-46010 IDENTIFY AS "12585927"
8. ANO MFR FSCM NUMBER BY TAG, BAG, OR BOX
9. MATERIAL:
ALLOY STEEL
A151 4140
UNS G41400
SUS:00 8853
TYPE D, GR 1.
CL C



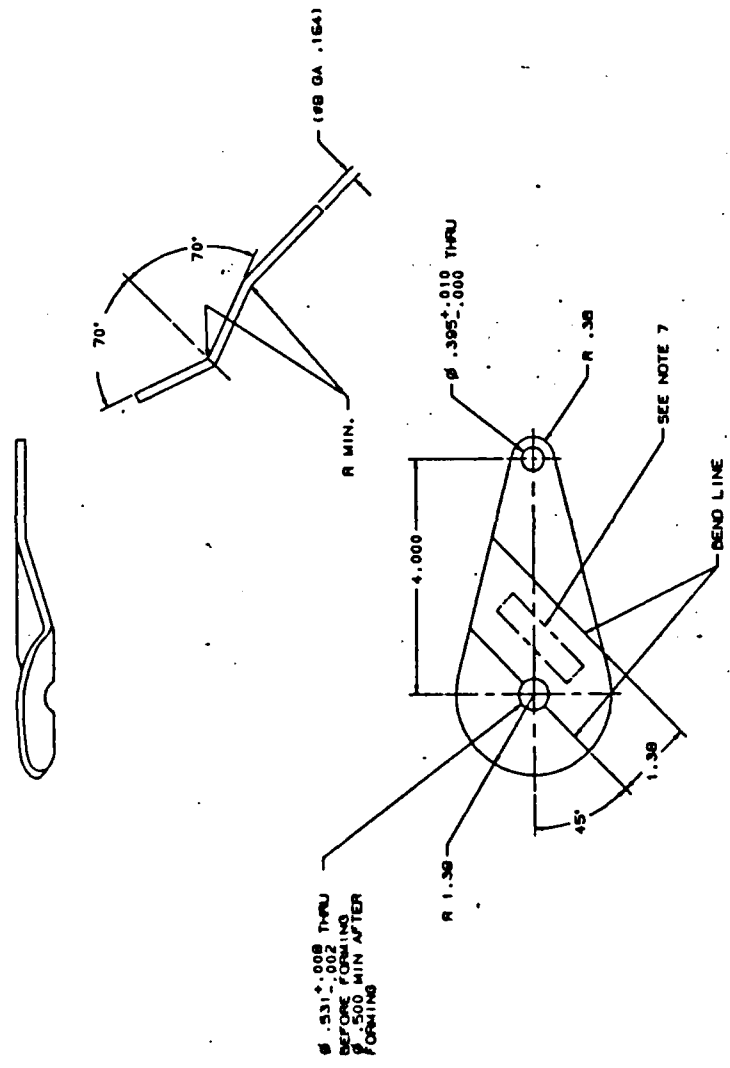
VIEW A
SCALE 4/1
2 PLACES

MECHANICAL PROPERTIES TP L/F TS L/F EL2 L/F RA L/F BH L/F BH L/F		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = .004 ± .010 FRACTIONS = ANGLES = 30° THIRD ANGLE PROJECTION 		ORIGINAL DATE OF ISSUING REV 07-1-70 1. INCH 2. 1/2 INCH 3. 3/4 INCH 4. 1 INCH 5. 1 1/2 INCH 6. 2 INCH 7. 3 INCH 8. 4 INCH 9. 6 INCH 10. 8 INCH 11. 10 INCH 12. 12 INCH 13. 14 INCH 14. 16 INCH 15. 18 INCH 16. 20 INCH 17. 22 INCH 18. 24 INCH 19. 26 INCH 20. 28 INCH 21. 30 INCH 22. 32 INCH 23. 34 INCH 24. 36 INCH 25. 38 INCH 26. 40 INCH 27. 42 INCH 28. 44 INCH 29. 46 INCH 30. 48 INCH 31. 50 INCH 32. 52 INCH 33. 54 INCH 34. 56 INCH 35. 58 INCH 36. 60 INCH 37. 62 INCH 38. 64 INCH 39. 66 INCH 40. 68 INCH 41. 70 INCH 42. 72 INCH 43. 74 INCH 44. 76 INCH 45. 78 INCH 46. 80 INCH 47. 82 INCH 48. 84 INCH 49. 86 INCH 50. 88 INCH 51. 90 INCH 52. 92 INCH 53. 94 INCH 54. 96 INCH 55. 98 INCH 56. 100 INCH 57. 102 INCH 58. 104 INCH 59. 106 INCH 60. 108 INCH 61. 110 INCH 62. 112 INCH 63. 114 INCH 64. 116 INCH 65. 118 INCH 66. 120 INCH 67. 122 INCH 68. 124 INCH 69. 126 INCH 70. 128 INCH 71. 130 INCH 72. 132 INCH 73. 134 INCH 74. 136 INCH 75. 138 INCH 76. 140 INCH 77. 142 INCH 78. 144 INCH 79. 146 INCH 80. 148 INCH 81. 150 INCH 82. 152 INCH 83. 154 INCH 84. 156 INCH 85. 158 INCH 86. 160 INCH 87. 162 INCH 88. 164 INCH 89. 166 INCH 90. 168 INCH 91. 170 INCH 92. 172 INCH 93. 174 INCH 94. 176 INCH 95. 178 INCH 96. 180 INCH 97. 182 INCH 98. 184 INCH 99. 186 INCH 100. 188 INCH 101. 190 INCH 102. 192 INCH 103. 194 INCH 104. 196 INCH 105. 198 INCH 106. 200 INCH 107. 202 INCH 108. 204 INCH 109. 206 INCH 110. 208 INCH 111. 210 INCH 112. 212 INCH 113. 214 INCH 114. 216 INCH 115. 218 INCH 116. 220 INCH 117. 222 INCH 118. 224 INCH 119. 226 INCH 120. 228 INCH 121. 230 INCH 122. 232 INCH 123. 234 INCH 124. 236 INCH 125. 238 INCH 126. 240 INCH 127. 242 INCH 128. 244 INCH 129. 246 INCH 130. 248 INCH 131. 250 INCH 132. 252 INCH 133. 254 INCH 134. 256 INCH 135. 258 INCH 136. 260 INCH 137. 262 INCH 138. 264 INCH 139. 266 INCH 140. 268 INCH 141. 270 INCH 142. 272 INCH 143. 274 INCH 144. 276 INCH 145. 278 INCH 146. 280 INCH 147. 282 INCH 148. 284 INCH 149. 286 INCH 150. 288 INCH 151. 290 INCH 152. 292 INCH 153. 294 INCH 154. 296 INCH 155. 298 INCH 156. 300 INCH 157. 302 INCH 158. 304 INCH 159. 306 INCH 160. 308 INCH 161. 310 INCH 162. 312 INCH 163. 314 INCH 164. 316 INCH 165. 318 INCH 166. 320 INCH 167. 322 INCH 168. 324 INCH 169. 326 INCH 170. 328 INCH 171. 330 INCH 172. 332 INCH 173. 334 INCH 174. 336 INCH 175. 338 INCH 176. 340 INCH 177. 342 INCH 178. 344 INCH 179. 346 INCH 180. 348 INCH 181. 350 INCH 182. 352 INCH 183. 354 INCH 184. 356 INCH 185. 358 INCH 186. 360 INCH 187. 362 INCH 188. 364 INCH 189. 366 INCH 190. 368 INCH 191. 370 INCH 192. 372 INCH 193. 374 INCH 194. 376 INCH 195. 378 INCH 196. 380 INCH 197. 382 INCH 198. 384 INCH 199. 386 INCH 200. 388 INCH 201. 390 INCH 202. 392 INCH 203. 394 INCH 204. 396 INCH 205. 398 INCH 206. 400 INCH 207. 402 INCH 208. 404 INCH 209. 406 INCH 210. 408 INCH 211. 410 INCH 212. 412 INCH 213. 414 INCH 214. 416 INCH 215. 418 INCH 216. 420 INCH 217. 422 INCH 218. 424 INCH 219. 426 INCH 220. 428 INCH 221. 430 INCH 222. 432 INCH 223. 434 INCH 224. 436 INCH 225. 438 INCH 226. 440 INCH 227. 442 INCH 228. 444 INCH 229. 446 INCH 230. 448 INCH 231. 450 INCH 232. 452 INCH 233. 454 INCH 234. 456 INCH 235. 458 INCH 236. 460 INCH 237. 462 INCH 238. 464 INCH 239. 466 INCH 240. 468 INCH 241. 470 INCH 242. 472 INCH 243. 474 INCH 244. 476 INCH 245. 478 INCH 246. 480 INCH 247. 482 INCH 248. 484 INCH 249. 486 INCH 250. 488 INCH 251. 490 INCH 252. 492 INCH 253. 494 INCH 254. 496 INCH 255. 498 INCH 256. 500 INCH 257. 502 INCH 258. 504 INCH 259. 506 INCH 260. 508 INCH 261. 510 INCH 262. 512 INCH 263. 514 INCH 264. 516 INCH 265. 518 INCH 266. 520 INCH 267. 522 INCH 268. 524 INCH 269. 526 INCH 27	
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1. QUANTITATIVE LIMITS AND SURFACE
CONDITIONS OF CONDITIONS APPLY
AFTER PLATING
2. EDWARDS - 010 - 030
3. PELLETS R. 010 - 040
4. GREEN AND TUMPER PER VESSELS
TO 240-320 BORELL VESSELS
5. WOODS WARDEN PER SURFACE
HARDNESS AND TO 010 MIN CASE
DEPTH MEASURED TO 50 RUGGELL C
EQUIVALENT
6. MICHEL PATE 0002 - 0015 THICK
COOL-PO-200, CLASS 1
7. STEEL STAMP "19240-T-1-250520/2-A IN"
AND W/F F&H NUMBER PER MIL STD 130
IN APPROX LOCATION SHOWN. CHARACTERISTICS
1E APPROX
8. ALL SURFACES 12% ✓
9. MATERIAL:
10. CARBON STEEL
A151 1015-1025

[illegible]

1. DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY AFTER PLATING
2. CODES 818-034
3. FILLETS R .010-.040
4. QUENCH AND TEMPER PER 9512554 TO 24-32% BRINELL
5. NITRIDE HARDEN PER 9512554 TO ROCKWELL 15M 90 MIN SURFACE HARDNESS AND TO .010 MIN CASE DEPTH MEASURED TO 50 ROCKWELL C EQUIVALENT
6. MICHEL PLATE .0002-.0016 THICK 60-H-290, CLASS 1
7. STEEL STAMP "19200-T-12585828/A" AND MFR TSCU NUMBER PER MIL-STD-138 IN APPROX LOCATION SHOWN. CHARACTERISTICS SEE APPENDIX
8. ALL SURFACES 125
9. MATERIAL: CARBON STEEL A151 1015-1025



MECHANICAL PROPERTIES		SD SDT SCALE BRASSING		ORIGINAL DATE OF BRASSING		ANALYST RESULTS, ANALYST FOR IDENTIFICATION NUMBER	
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LEVER, PARK BRAKE
 R. H.

T-12585828/A
 19200
 1/1
 1/1

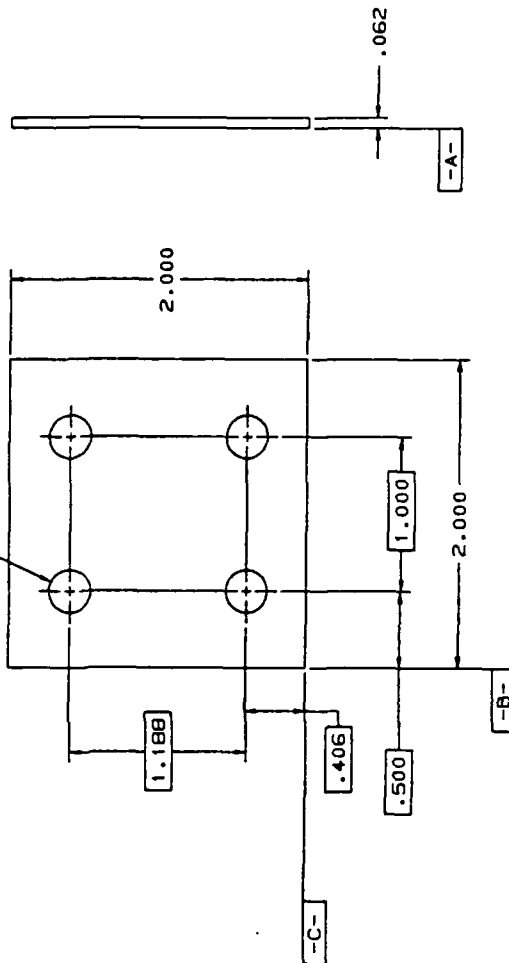
DRAWING SIZE C

1 2 3 4

REVISIONS		
REV	DESCRIPTION	DATE

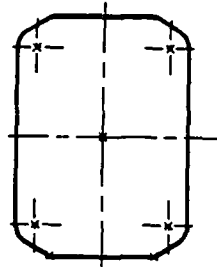
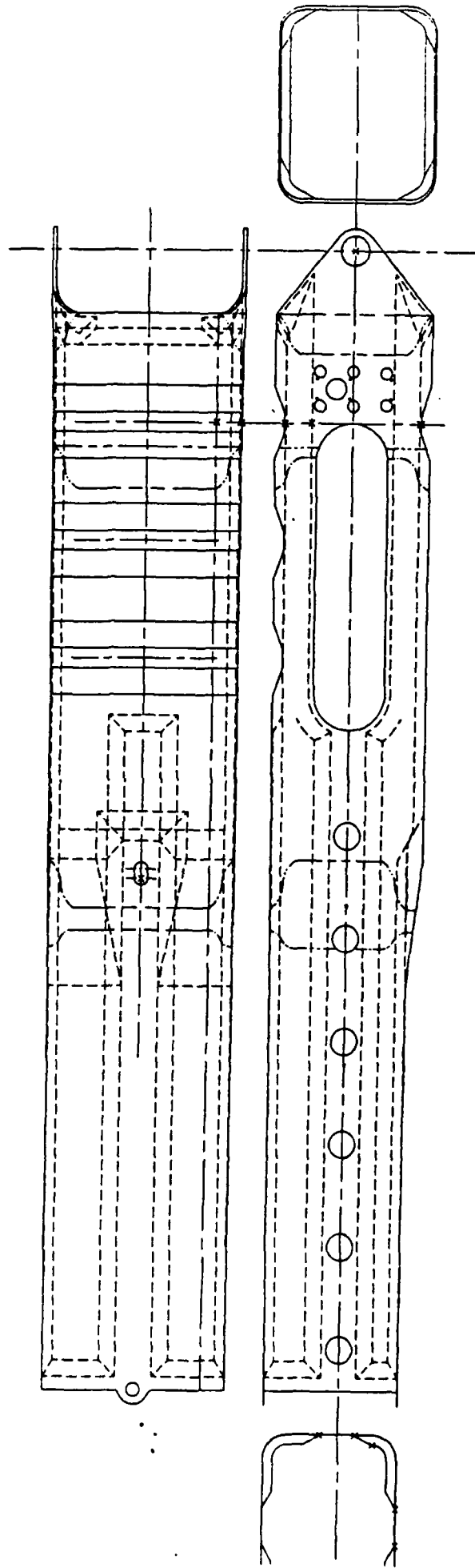
1. EDGES .010-.030
2. FILLETS R .010-.040
3. EXCEPT AS NOTED, ALL SURFACES 250
4. IDENTIFY AS "12585829" AND MFR FSCM NUMBER BY TAG, BAG, OR BOX
5. MATERIAL:
GARLOCK STYLE 3200/3400

$\phi .281^{+.008}_{-.002}$ THRU
4 HOLES
 $\phi .010$ A B C



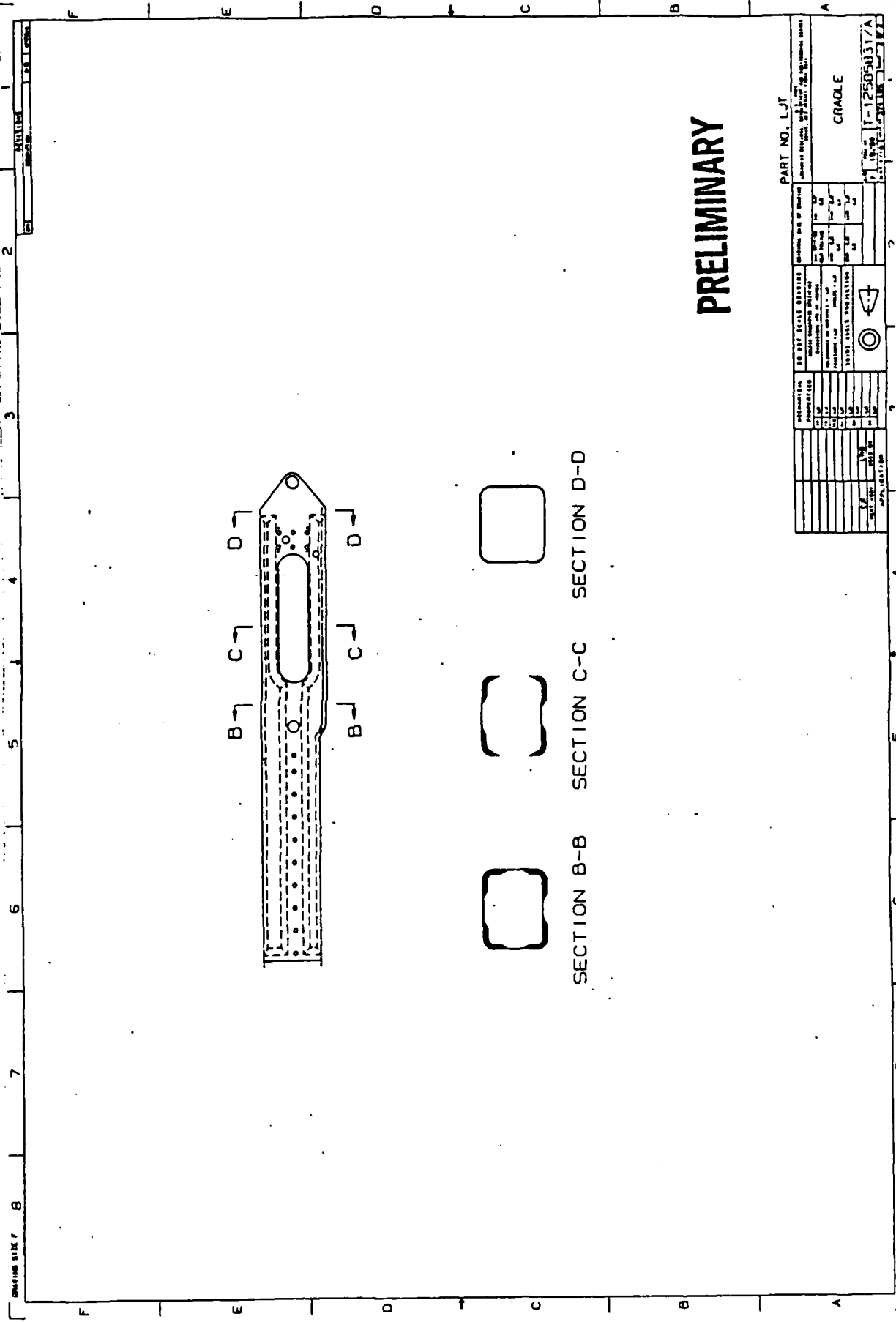
U.S. ARMY ARMY RESERVE, DEVELOPMENT AND ENGINEERING CENTER BUREAU, NEW JERSEY 07001-5001	
GASKET PARK BRAKE	
PART NO. C 19200	DRAWING NO. T-12585829/A
SCALE 2/1 UNIT IN	
SHEET 1 OF 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = .005 ± .010 FRACTIONS = 1/16" ± .005"	ORIGINAL DATE OF DRAWING 87-02-18 T. BAKER 2000 C/J 2000 C/J 2000 C/J 2000 C/J
MECHANICAL PROPERTIES TP L/T TS L/T CL2 L/T BA L/T BM L/T BM L/T	THIRD ANGLE PROJECTION
APPLICATION C/JT NEXT ASSY USED ON	3

CAD STATUS USER 87/02/18 M20E94 LTH01



K. WILLIAMS
CRADLE MACHINING
T-12585831

CRADLE LAYOUT
SCALE: .0625
K. WILLIAMS



PRELIMINARY

PART NO. LJT

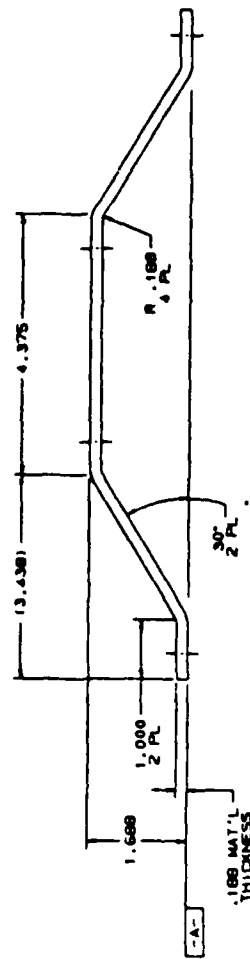
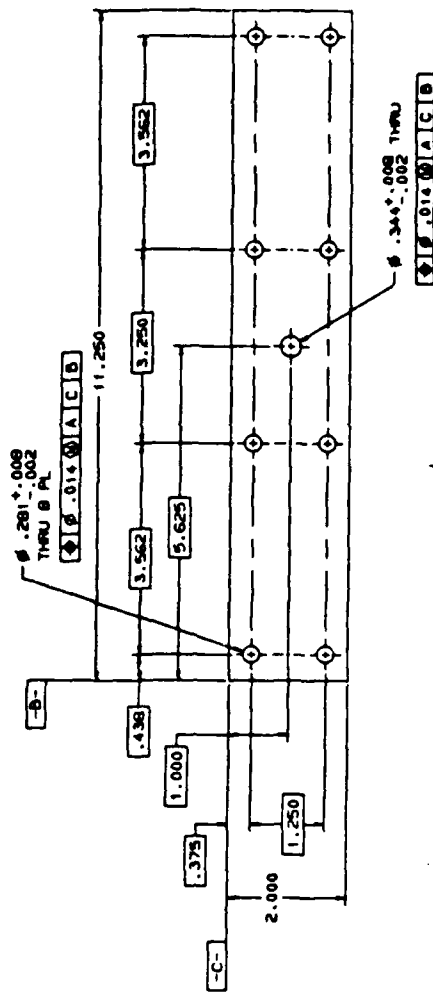
CRADLE

1-12505831/A

DESCRIPTION		QUANTITY		MATERIAL		FINISH		TOLERANCES		OTHER	
1	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
2	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
3	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
4	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
5	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
6	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
7	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
8	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
9	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
10	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
11	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
12	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
13	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
14	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
15	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
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17	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
18	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
19	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			
20	CRADLE	1		ALUMINUM	6061-T6	AS SUPPLIED		±.005			

DRAWING SIZE 0 B

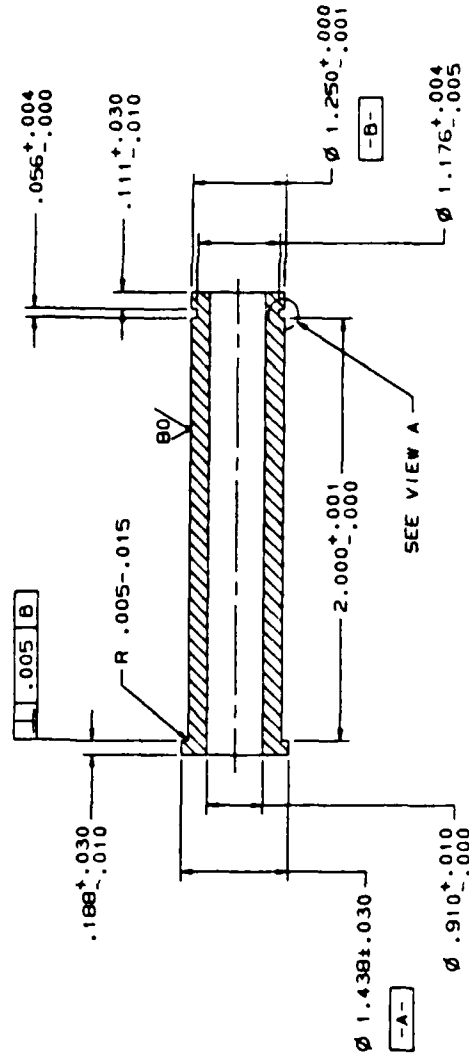
1. EDGES .005-.020
2. FILLETS .005-.020
3. IDENTIFY AS -
AND W/R NUMBER BY BAG, TAG,
OR BOX
4. MATERIAL CARBON FIBER EPOXY



NET AREA	1.76	INCHES	OF	APPLICATION	1
MECHANICAL PROPERTIES					3
a	TENSILE STRENGTH				2
b	TENSILE ELONGATION				
c	TENSILE REDUCTION OF AREA				
d	TENSILE YIELD POINT				
e	TENSILE MODULUS				2
f	TENSILE HARDNESS				
g	TENSILE IMPACT				
h	TENSILE FATIGUE				
DO NOT SCALE DRAWING					2
SCALE: 1/2" = 1"					
SCALE: 1/4" = 1"					
SCALE: 1/8" = 1"					
PROJ. DATE OF REVISED					2
PROJ. DATE OF REVISED					
PROJ. DATE OF REVISED					
PROJ. DATE OF REVISED					
PART NO.					2
PART NO.					
PART NO.					
PART NO.					
PLATE, TOP					2
PLATE, TOP					
PLATE, TOP					
PLATE, TOP					
T-128583/A					2
T-128583/A					
T-128583/A					
T-128583/A					

4

1. DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY AFTER PLATING
2. EDGES .010--.030
3. EXCEPT AS NOTED, ALL MACHINED SURFACES 250 ✓
4. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
5. IDENTIFY AS "12595834"
AND MFR FSCM NUMBER BY TAG, BAG, OR BOX
6. MATERIAL :
TITANIUM, 6AL4V, AMS 4928,
ANNEALED



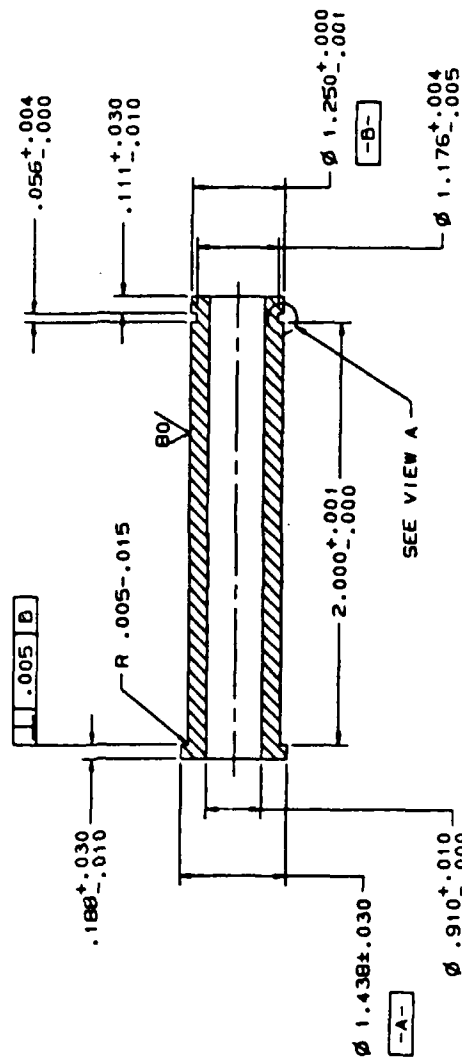
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PIN, CLEVIS, LARGE

19200	T-12585834/A
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4

1. DIMENSIONAL LIMITS AND SURFACE TEXTURE DESIGNATIONS APPLY AFTER PLATING
2. EDGES .010-- .030
3. EXCEPT AS NOTED, ALL MACHINED SURFACES 250 ✓
4. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
5. IDENTIFY AS "125B5834"
AND MFR FSCM NUMBER BY TAG, BAG, OR BOX
6. MATERIAL :
TITANIUM, 6AL4V, AMS 4328,
ANNEALED



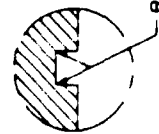
VIEW A
SCALE NONE

		MECHANICAL PROPERTIES		80 NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DAVID, NEW JERSEY 07001-5001	
MATERIAL	10	CJ	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	REV 87-1-20	REV CJ	PIN, CLEVIS, LARGE	FORM NO. 19-200 DATE 1987-01-20 BY 1001		
	11	CJ	TENSILES ON ORIGINAL $\sigma = \frac{P}{A_0} \leq 0.5 \text{ KSI}$	REV CJ	REV CJ				
	12	CJ	FRAC TURE $\sigma =$	REV CJ	REV CJ				
	13	CJ	THIRD ANGLE PROJECTION	REV CJ	REV CJ				
	14	CJ		REV CJ	REV CJ				
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CAO STATUS USER 07/02/26 M20E94 LTHD2

2

6. MATERIAL: TITANIUM, 6AL4V, AMS 4928, ANNEALED

VIEW A
SCALE NONE[illegible]

CAO STATUS USER 07/02/26 M20E94 LIMD2

DRAWING SIZE C

REV	DESCRIPTION	DATE	APPROVE
1			

1. DIMENSIONAL LIMITS AND SURFACE
FEATURE DESIGNATIONS APPLY
AFTER PLATING

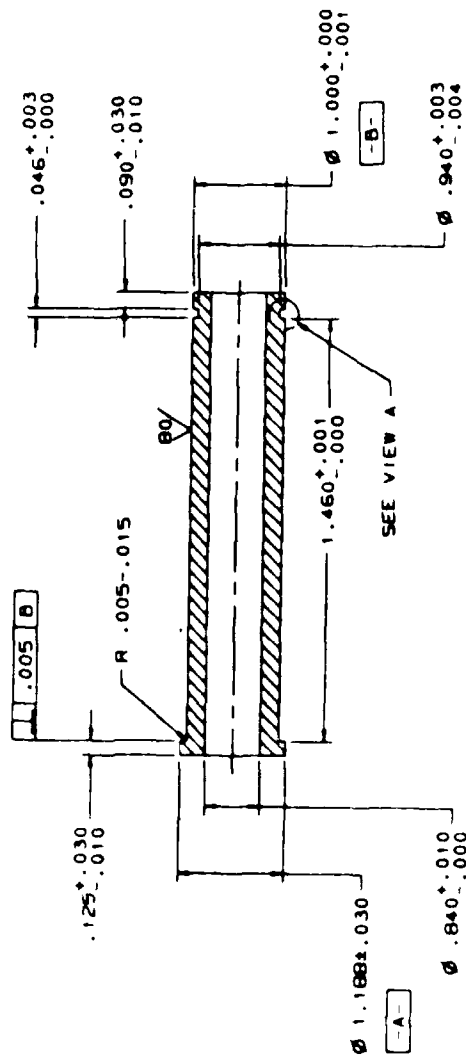
2. EDGES .010-.030

3. EXCEPT AS NOTED, ALL MACHINED SURFACES 250 ✓

4. UNLESS OTHERWISE SPECIFIED, A FEATURE
SHALL BE PERPENDICULAR TO ANOTHER
FEATURE, SHALL BE PERPENDICULAR
WITHIN THE ZONE ESTABLISHED BY THE
FEATURE'S ENVELOPE TOLERANCE

5. IDENTIFY AS "12-585835"
AND WAF PSCM NUMBER BY TAG, BAG,
OR BOX

6. MATERIAL:
TITANIUM, GRAV, AMS 4928,
ANNEALED

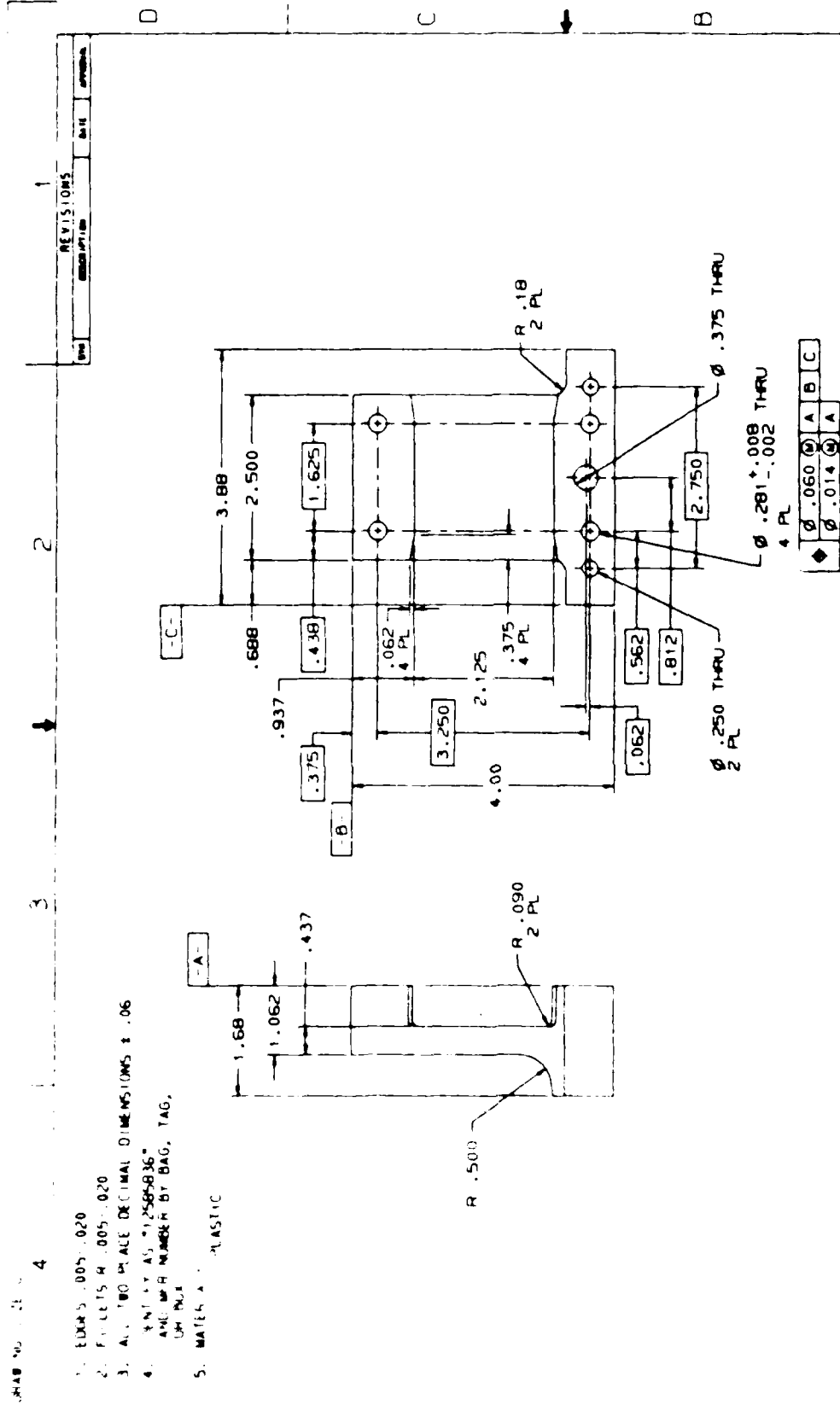


VIEW A
SCALE NONE

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		APPROVED FOR RELEASE, REPRODUCTION AND DISTRIBUTION LIMITED UNLESS SPECIFICALLY NOTED, MAY BE REPRODUCED	
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APPLICATION		THIRD ANGLE PROJECTION		DATE		DRAWN BY	
CUT		CUT		19200		T-12585835/A	
CUT		CUT		19200		T-12585835/A	

PIN, CLEVIS, SMALL

AD STATUS USER B7/02/26 M20694 11402



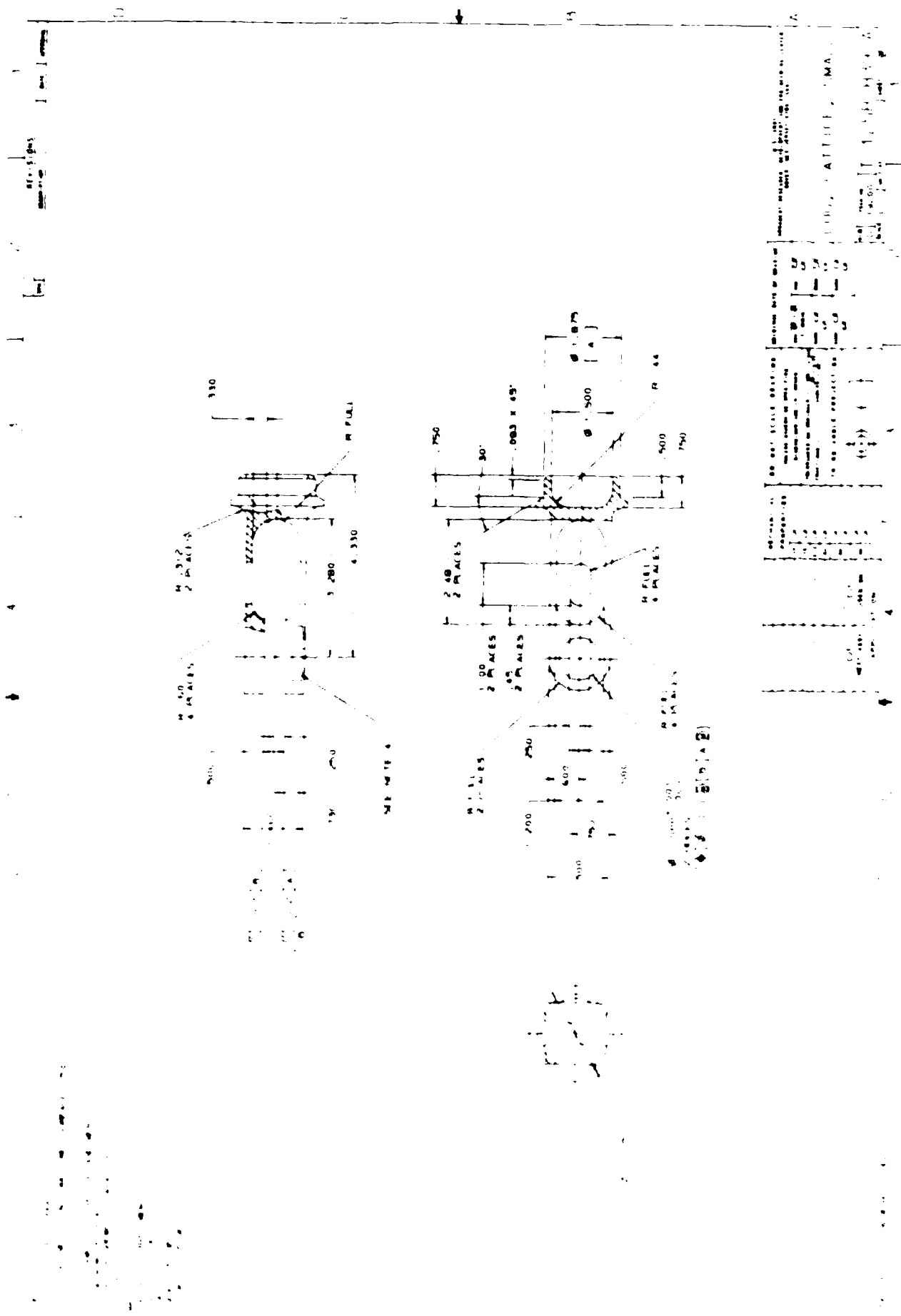
PART NO.

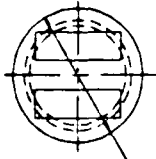
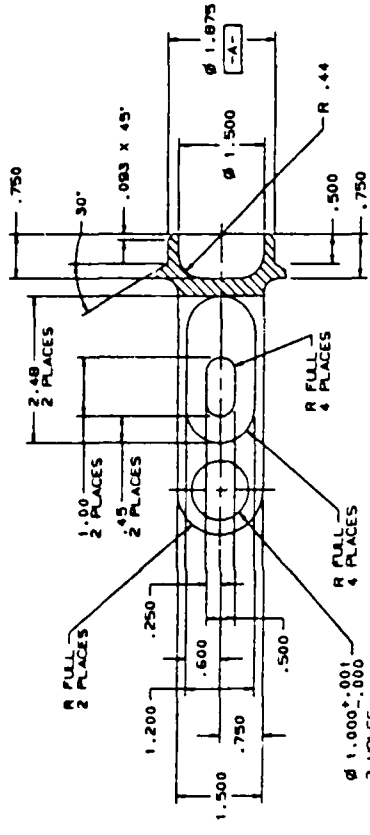
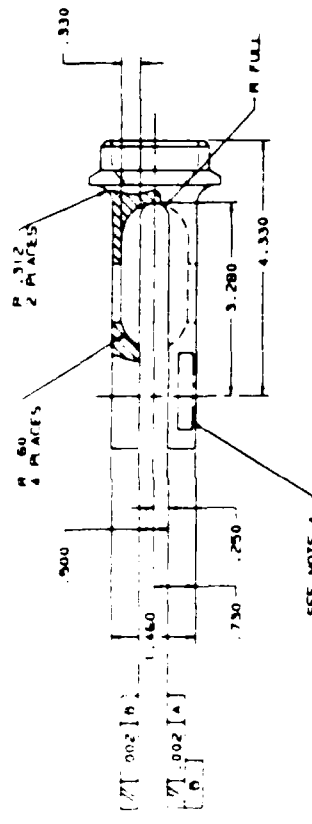
REVISIONS		DATE		APPROVAL	
REV	DESCRIPTION	DATE			
1					
2					
3					
4					
SHOCK MOUNT GUIDE, REAR					
T-12585836/A					
C 19200					
1/1					

1. EXHIBIT 1005-020
2. EXHIBIT 1005-020
3. ALL DIMENSIONS ARE IN INCHES
4. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO BE MAINTAINED TO THE CLOSEST POSSIBLE TOLERANCE
5. MATERIAL - PLASTIC

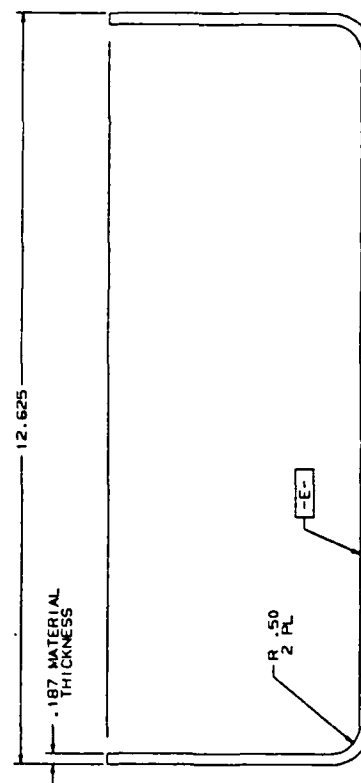
AS SHOWN BY 23/06 M20672 1/1

MA: 1994



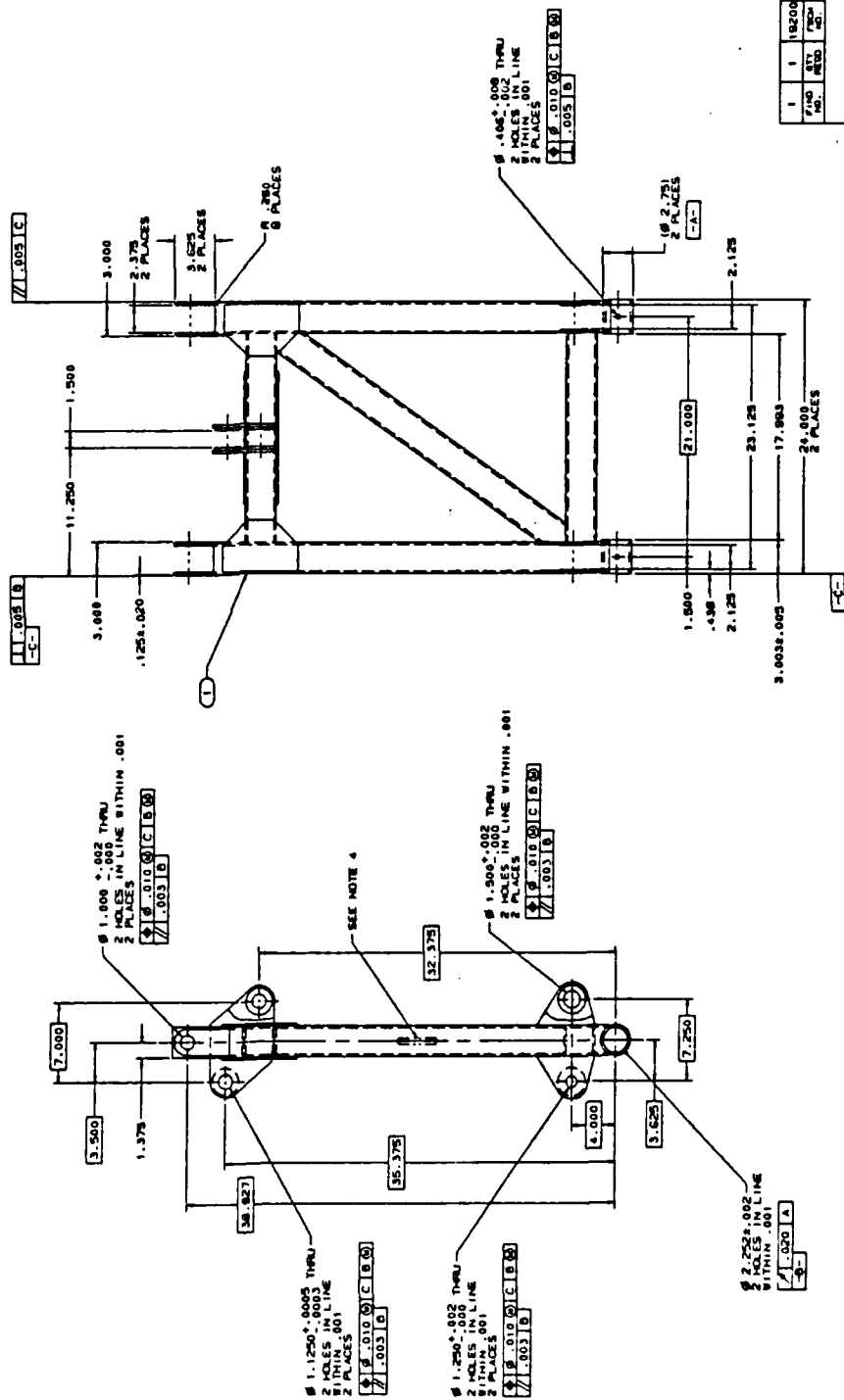


STANDARD SPECIFICATIONS PART 1 PART 2 PART 3 PART 4 PART 5 PART 6 PART 7 PART 8 PART 9 PART 10 PART 11 PART 12 PART 13 PART 14 PART 15 PART 16 PART 17 PART 18 PART 19 PART 20 PART 21 PART 22 PART 23 PART 24 PART 25 PART 26 PART 27 PART 28 PART 29 PART 30 PART 31 PART 32 PART 33 PART 34 PART 35 PART 36 PART 37 PART 38 PART 39 PART 40 PART 41 PART 42 PART 43 PART 44 PART 45 PART 46 PART 47 PART 48 PART 49 PART 50 PART 51 PART 52 PART 53 PART 54 PART 55 PART 56 PART 57 PART 58 PART 59 PART 60 PART 61 PART 62 PART 63 PART 64 PART 65 PART 66 PART 67 PART 68 PART 69 PART 70 PART 71 PART 72 PART 73 PART 74 PART 75 PART 76 PART 77 PART 78 PART 79 PART 80 PART 81 PART 82 PART 83 PART 84 PART 85 PART 86 PART 87 PART 88 PART 89 PART 90 PART 91 PART 92 PART 93 PART 94 PART 95 PART 96 PART 97 PART 98 PART 99 PART 100		ORIGINAL DATE OF MAKING DATE TIME		LUG, LATTICE, SMALL T-12585839/A	
MECHANICAL PROPERTIES TENSILE YIELD ELONGATION REDUCTION OF AREA IMPACT HARDNESS FATIGUE CORROSION WELDABILITY MACHINABILITY THERMAL STABILITY ELECTRICAL PROPERTIES MAGNETIC PROPERTIES OPTICAL PROPERTIES ACOUSTIC PROPERTIES RADIATION EFFECTS OTHER PROPERTIES		APPLICATION C/J MEST. 12585839/A		1 2 3 4 5 6	



CAN STATUS IAFR 87/02/19 MAY 87 72 LT 1 MAY

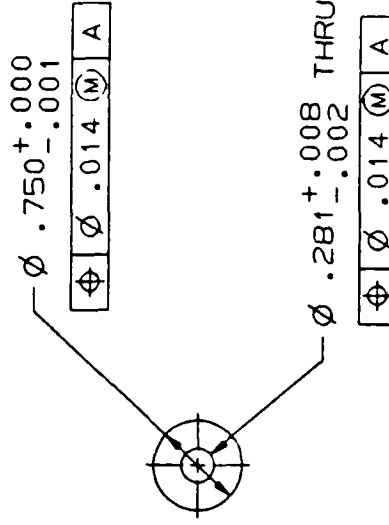
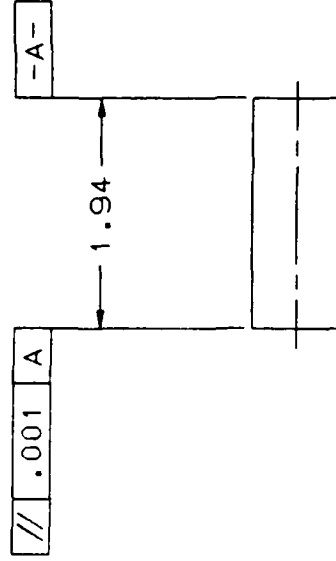
1. DIMS .010-.030
2. FILLETS R .010-.030
3. EXCEPT AS NOTED, ALL MACHINED SURFACES 254
4. STEEL STAMP "1250044" AND MFR
5. PART NUMBER IN APPROX
6. LOCATION, CHARACTER
7. 12.500



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DRAWING SIZE B

1. EDGES .005-.020
2. IDENTIFY AS "12585861"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL: NYLON

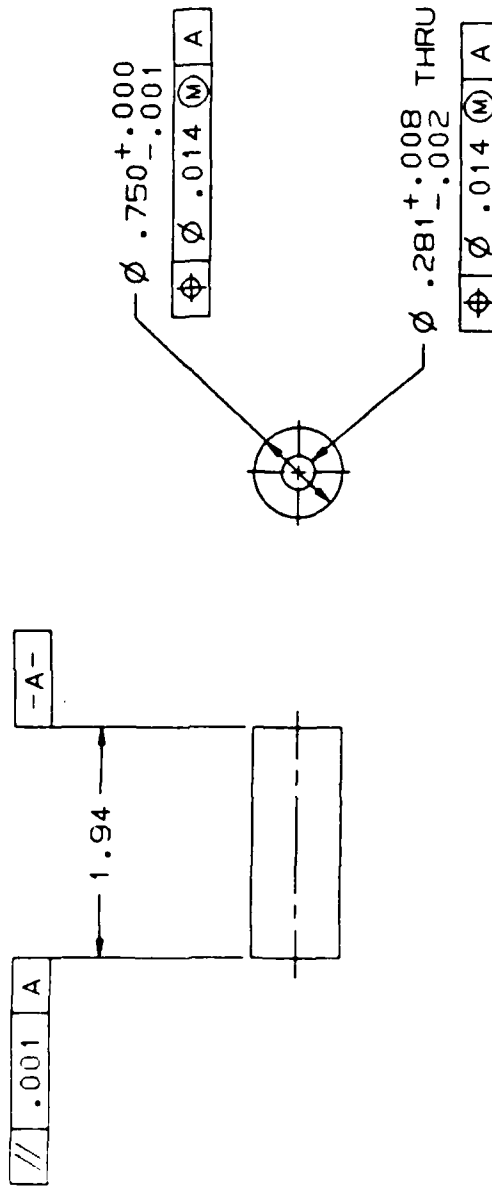


PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = ± .015 FRACTIONS = ---- ANGLES = ± 2°		THIRD ANGLE PROJECTION		PIN, PIVOT	
SIZE B		FSCM NO. 19200		T-12585861/A		SCALE 1/1		UNIT WT CALC .04 LBS	
SHEET 1 OF 1		DRAWN BY S. HALVERSON		ENGR		ENGR		ENGR	
APPROVAL		LTHD		USED ON		NEXT ASSY		APPLICATION	

3. MATERIAL: NYLON

REVISIONS		
SYM	DESCRIPTION	DATE



PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001

PIN, PIVOT

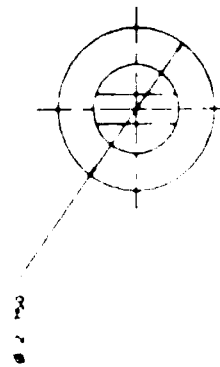
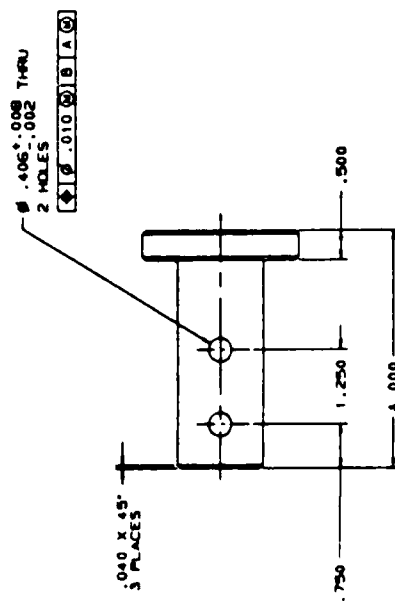
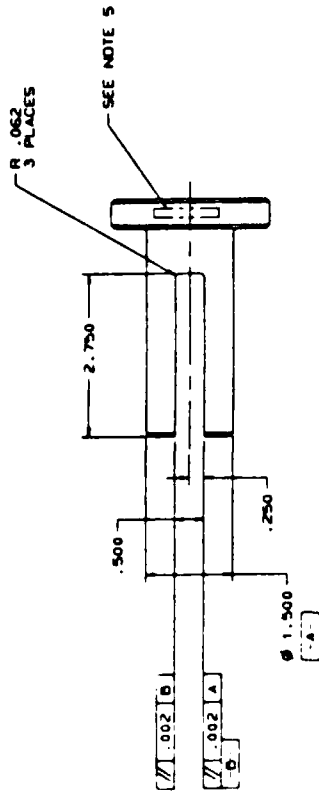
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B	19200	
SCALE	1/1	UNIT WT CALC .04 LBS SHEET 1 OF 1

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111 TRAY M20E72 07/03/04

0 17 15 50 10 0

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2 PICKUP 010 040
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MECHANICAL PROPERTIES		DO NOT SCALE BRASSING		ORIGINAL DATE OF BRASSING		1. DATE 2. TIME 3. LOCATION 4. NAME 5. GRADE 6. WEIGHT 7. VOLUME 8. SURFACE AREA 9. VOLUME 10. WEIGHT 11. VOLUME 12. WEIGHT 13. VOLUME 14. WEIGHT 15. VOLUME 16. WEIGHT 17. VOLUME 18. WEIGHT 19. VOLUME 20. WEIGHT 21. VOLUME 22. WEIGHT 23. VOLUME 24. WEIGHT 25. VOLUME 26. WEIGHT 27. VOLUME 28. WEIGHT 29. VOLUME 30. WEIGHT 31. VOLUME 32. WEIGHT 33. VOLUME 34. WEIGHT 35. VOLUME 36. WEIGHT 37. VOLUME 38. WEIGHT 39. VOLUME 40. WEIGHT 41. VOLUME 42. WEIGHT 43. VOLUME 44. WEIGHT 45. VOLUME 46. WEIGHT 47. VOLUME 48. WEIGHT 49. VOLUME 50. WEIGHT 51. VOLUME 52. WEIGHT 53. VOLUME 54. WEIGHT 55. VOLUME 56. WEIGHT 57. VOLUME 58. WEIGHT 59. VOLUME 60. WEIGHT 61. VOLUME 62. WEIGHT 63. VOLUME 64. WEIGHT 65. VOLUME 66. WEIGHT 67. VOLUME 68. WEIGHT 69. VOLUME 70. WEIGHT 71. VOLUME 72. WEIGHT 73. VOLUME 74. WEIGHT 75. VOLUME 76. WEIGHT 77. VOLUME 78. WEIGHT 79. VOLUME 80. WEIGHT 81. VOLUME 82. WEIGHT 83. VOLUME 84. WEIGHT 85. VOLUME 86. WEIGHT 87. VOLUME 88. WEIGHT 89. VOLUME 90. WEIGHT 91. VOLUME 92. WEIGHT 93. VOLUME 94. WEIGHT 95. VOLUME 96. WEIGHT 97. VOLUME 98. WEIGHT 99. VOLUME 100. WEIGHT 101. VOLUME 102. WEIGHT 103. VOLUME 104. WEIGHT 105. VOLUME 106. WEIGHT 107. VOLUME 108. WEIGHT 109. VOLUME 110. WEIGHT 111. VOLUME 112. WEIGHT 113. VOLUME 114. WEIGHT 115. VOLUME 116. WEIGHT 117. VOLUME 118. WEIGHT 119. VOLUME 120. WEIGHT 121. VOLUME 122. WEIGHT 123. VOLUME 124. WEIGHT 125. VOLUME 126. WEIGHT 127. VOLUME 128. WEIGHT 129. VOLUME 130. WEIGHT 131. VOLUME 132. WEIGHT 133. VOLUME 134. WEIGHT 135. VOLUME 136. WEIGHT 137. VOLUME 138. WEIGHT 139. VOLUME 140. WEIGHT 141. VOLUME 142. WEIGHT 143. VOLUME 144. WEIGHT 145. VOLUME 146. WEIGHT 147. VOLUME 148. WEIGHT 149. VOLUME 150. WEIGHT 151. VOLUME 152. WEIGHT 153. VOLUME 154. WEIGHT 155. VOLUME 156. WEIGHT 157. VOLUME 158. WEIGHT 159. VOLUME 160. WEIGHT 161. VOLUME 162. WEIGHT 163. VOLUME 164. WEIGHT 165. VOLUME 166. WEIGHT 167. VOLUME 168. WEIGHT 169. VOLUME 170. WEIGHT 171. VOLUME 172. WEIGHT 173. VOLUME 174. WEIGHT 175. VOLUME 176. WEIGHT 177. VOLUME 178. WEIGHT 179. VOLUME 180. WEIGHT 181. VOLUME 182. WEIGHT 183. VOLUME 184. WEIGHT 185. VOLUME 186. WEIGHT 187. VOLUME 188. WEIGHT 189. VOLUME 190. WEIGHT 191. VOLUME 192. WEIGHT 193. VOLUME 194. WEIGHT 195. VOLUME 196. WEIGHT 197. VOLUME 198. WEIGHT 199. VOLUME 200. WEIGHT 201. VOLUME 202. WEIGHT 203. VOLUME 204. WEIGHT 205. VOLUME 206. WEIGHT 207. VOLUME 208. WEIGHT 209. VOLUME 210. WEIGHT 211. VOLUME 212. WEIGHT 213. VOLUME 214. WEIGHT 215. VOLUME 216. WEIGHT 217. VOLUME 218. WEIGHT 219. VOLUME 220. WEIGHT 221. VOLUME 222. WEIGHT 223. VOLUME 224. WEIGHT 225. VOLUME 226. WEIGHT 227. VOLUME 228. WEIGHT 229. VOLUME 230. WEIGHT 231. VOLUME 232. WEIGHT 233. VOLUME 234. WEIGHT 235. VOLUME 236. WEIGHT 237. VOLUME 238. WEIGHT 239. VOLUME 240. WEIGHT 241. VOLUME 242. WEIGHT 243. VOLUME 244. WEIGHT 245. VOLUME 246. WEIGHT 247. VOLUME 248. WEIGHT 249. VOLUME 250. WEIGHT 251. VOLUME 252. WEIGHT 253. VOLUME 254. WEIGHT 255. VOLUME 256. WEIGHT 257. VOLUME 258. WEIGHT 259. VOLUME 260. WEIGHT 261. VOLUME 262. WEIGHT 263. VOLUME 264. WEIGHT 265. VOLUME 266. WEIGHT 267. VOLUME 268. WEIGHT 269. VOLUME 270. WEIGHT 271. VOLUME 272. WEIGHT 273. VOLUME 274. WEIGHT 275. VOLUME 276. WEIGHT 277. VOLUME 278. WEIGHT 279. VOLUME 280. WEIGHT 281. VOLUME 282. WEIGHT 283. VOLUME 284. WEIGHT 285. VOLUME 286. WEIGHT 287. VOLUME 288. WEIGHT 289. VOLUME 290. WEIGHT 291. VOLUME 292. WEIGHT 293. VOLUME 294. WEIGHT 295. VOLUME 296. WEIGHT 297. VOLUME 298. WEIGHT 299. VOLUME 300. WEIGHT 301. VOLUME 302. WEIGHT 303. VOLUME 304. WEIGHT 305. VOLUME 306. WEIGHT 307. VOLUME 308. WEIGHT 309. VOLUME 310. WEIGHT 311. VOLUME 312. WEIGHT 313. VOLUME 314. WEIGHT 315. VOLUME 316. WEIGHT 317. VOLUME 318. WEIGHT 319. VOLUME 320. WEIGHT 321. VOLUME 322. WEIGHT 323. VOLUME 324. WEIGHT 325. VOLUME 326. WEIGHT 327. VOLUME 328. WEIGHT 329. VOLUME 330. WEIGHT 331. VOLUME 332. WEIGHT 333. VOLUME 334. WEIGHT 335. VOLUME 336. WEIGHT 337. VOLUME 338. WEIGHT 339. VOLUME 340. WEIGHT 341. VOLUME 342. WEIGHT 343. VOLUME 344. WEIGHT 345. VOLUME 346. WEIGHT 347. VOLUME 348. WEIGHT 349. VOLUME 350. WEIGHT 351. VOLUME 352. WEIGHT 353. VOLUME 354. WEIGHT 355. VOLUME 356. WEIGHT 357. VOLUME 358. WEIGHT 359. VOLUME 360. WEIGHT 361. VOLUME 362. WEIGHT 363. VOLUME 364. WEIGHT 365. VOLUME 366. WEIGHT 367. VOLUME 368. WEIGHT 369. VOLUME 370. WEIGHT 371. VOLUME 372. WEIGHT 373. VOLUME 374. WEIGHT 375. VOLUME 376. WEIGHT 377. VOLUME 378. WEIGHT 379. VOLUME 380. WEIGHT 381. VOLUME 382. WEIGHT 383. VOLUME 384. WEIGHT 385. VOLUME 386. WEIGHT 387. VOLUME 388. WEIGHT 389. VOLUME 390. WEIGHT 391. VOLUME 392. WEIGHT 393. VOLUME 394. WEIGHT 395. VOLUME	
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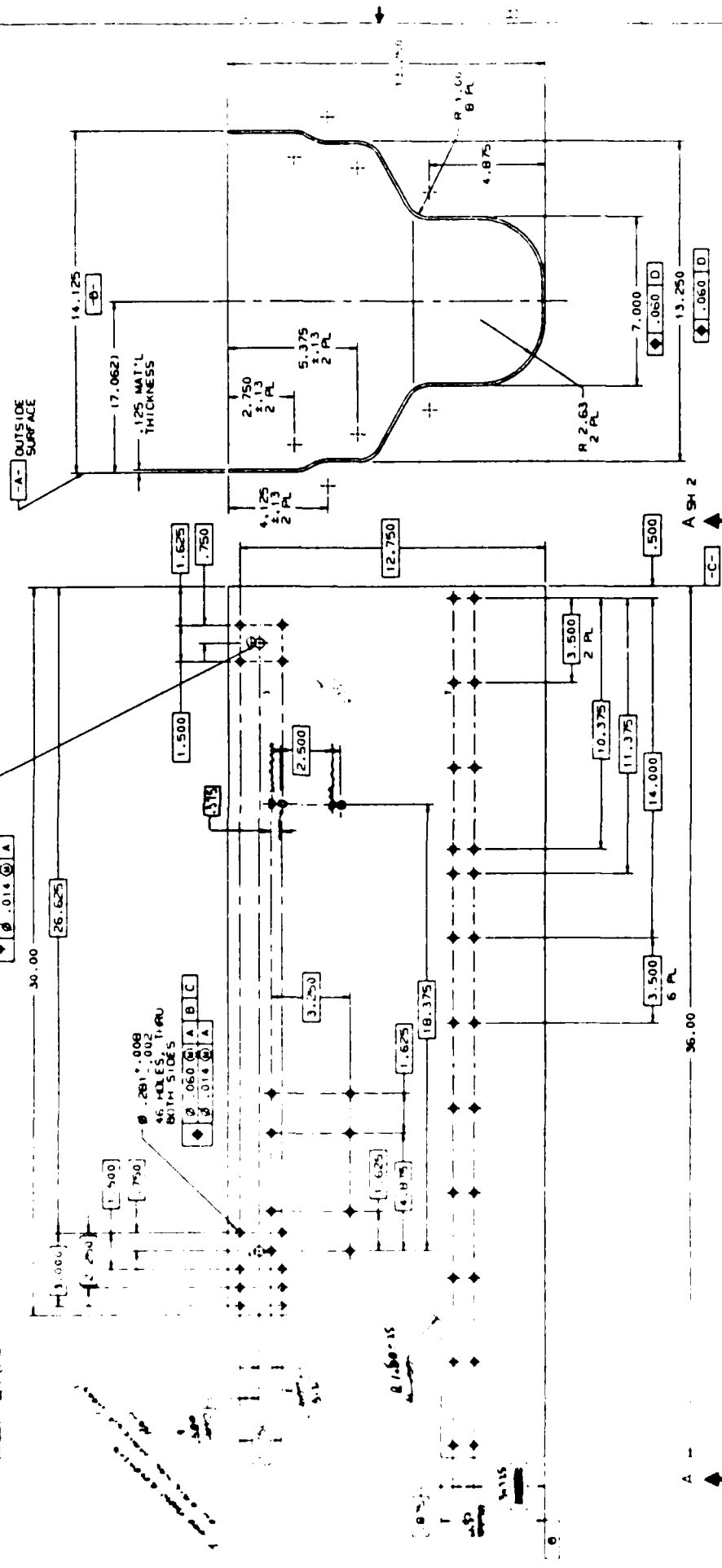
1. DIMENSIONS SHOWN
2. TOLERANCES SHOWN
3. TYPICAL DIMENSIONS SHOWN
4. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED
5. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED
6. MATERIAL: ALUMINUM 6061-T6

Ø .406 ± .008
2 HOLES, THRU
BOTH SIDES

Ø .060 ± .014 A B C

Ø .281 ± .008
46 HOLES, THRU
BOTH SIDES

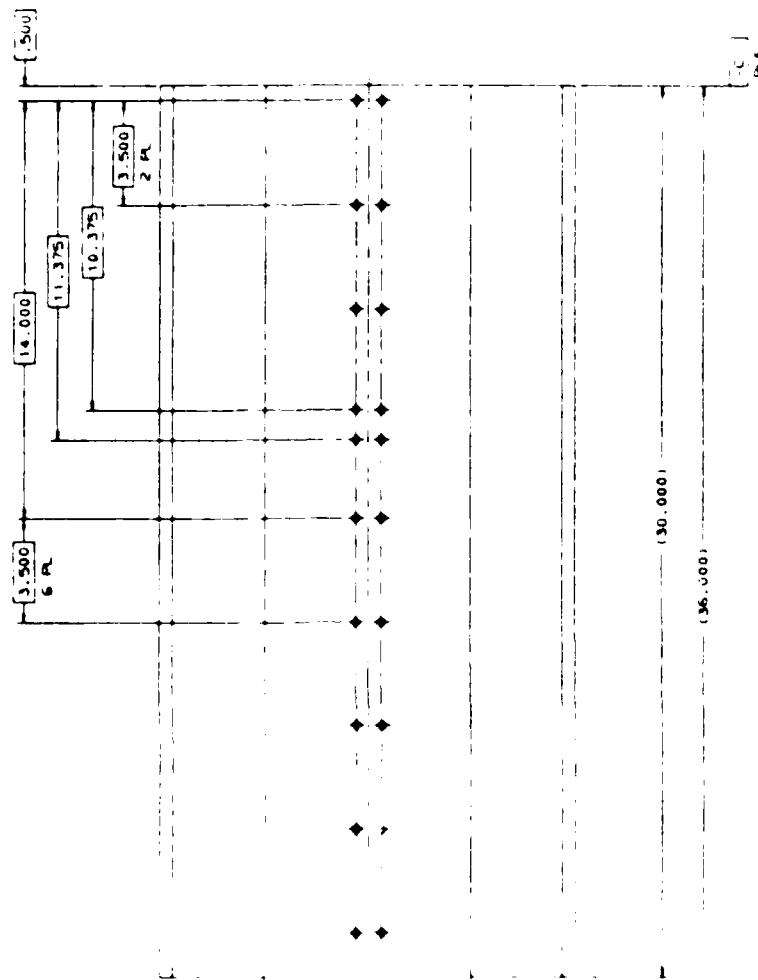
Ø .060 ± .014 A B C



PART NO.

MECHANICAL PROPERTIES		TENSILE PROPERTIES		COMPRESSION PROPERTIES		BENDING PROPERTIES		TORSION PROPERTIES		IMPACT PROPERTIES		WELDING PROPERTIES		OTHER PROPERTIES	
YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN	YIELD STRENGTH	MIN
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VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN	VICKERS HARDNESS	MIN
ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN	ROCKWELL C HARDNESS	MIN
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WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN	WELD ROCKWELL C HARDNESS	MIN

LOAD THAT



VIEW A-A
SEE SHEET 1

PART NO.

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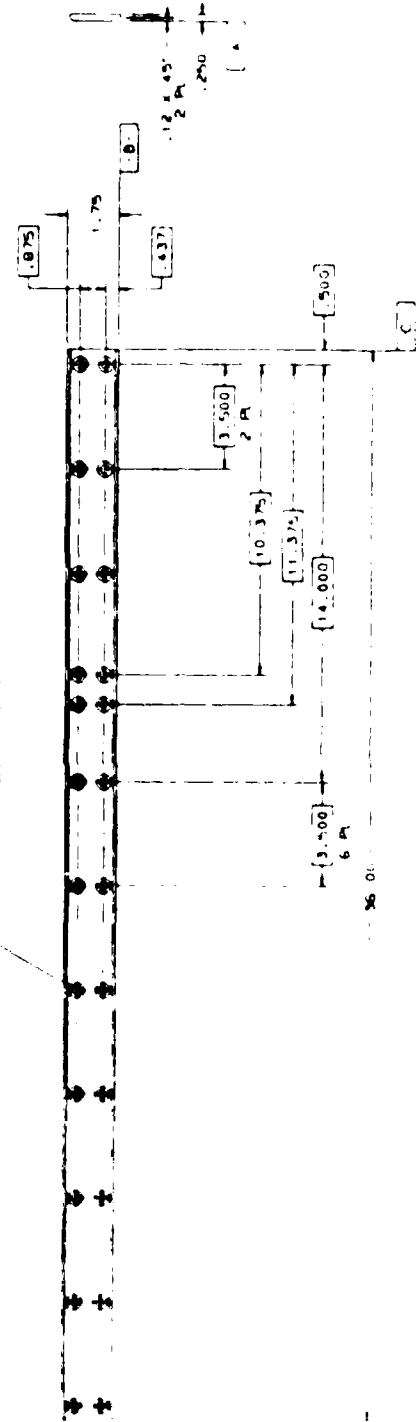
Dr. J. S. Ochs

$\theta_{\text{max}} = 0.08 \text{ rad}$

$C_{\text{max}} = 2.7 \times 0.531 = 1.45$

2.4 kN

{ \diamond \square \circ \triangle \ominus C }



DAIRY (W.).

[illegible]

WILLIAM

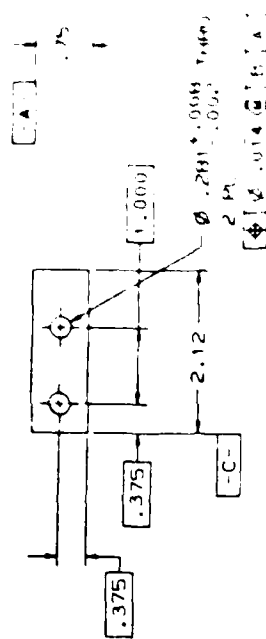
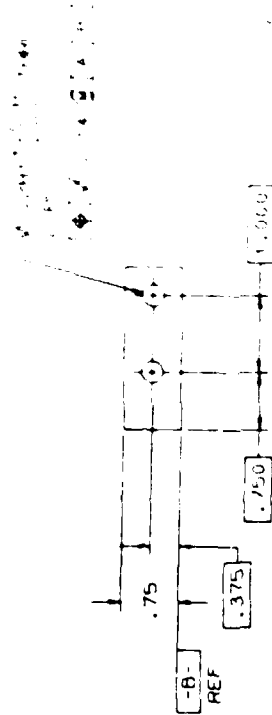
19,000

[illegible]

UNFINISHED SURFACE

4

1. EDX'S .005-.020
2. ALL TWO PLACE DECIMAL DIMENSIONS ± .06
3. IDENTIFY AS "12545871"
AND MFR NUMBER BY BAG, TAG,
OR BOA
4. MATERIAL: COMPOSITE



MECHANICAL PROPERTIES		DO NOT SCALE ORIGIN
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AD-A183 997

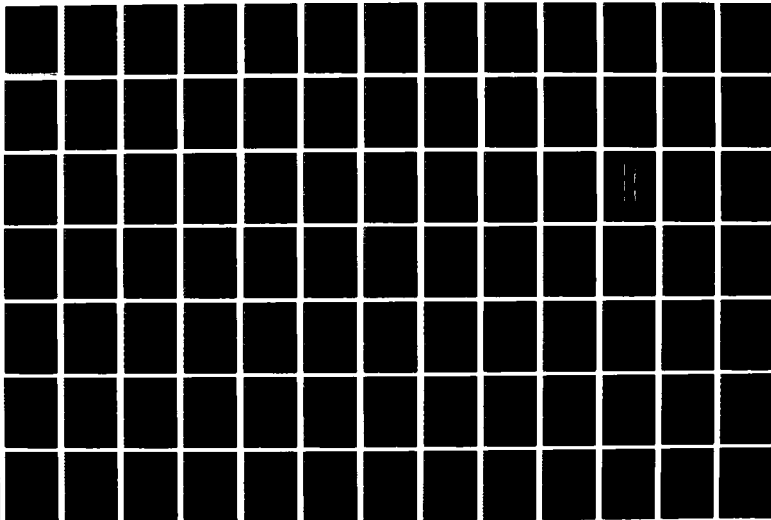
LIGHTWEIGHT TOWED HOWITZER DEMONSTRATOR PHASE 1 AND
PARTIAL PHASE 2 VOLUM (U) FMC CORP MINNEAPOLIS MINN
NORTHERN ORDNANCE DIV R RATHE ET AL APR 87
FMC-E-3041-VOL-G DAAA21-86-C-0047

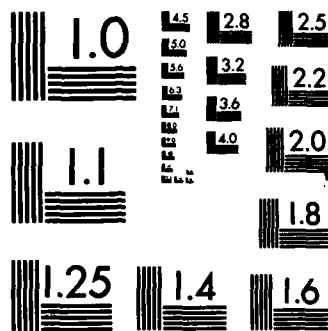
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UNCLASSIFIED

F/G 19/6

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DRAWING SIZE C

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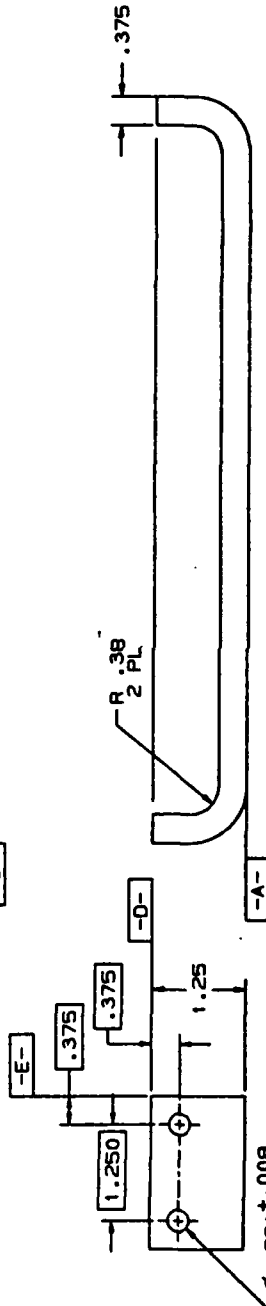
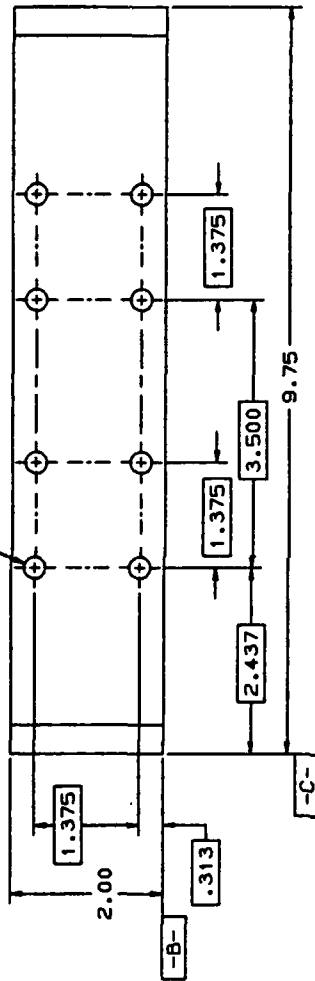
REV	DESCRIPTION	DATE	APPROVAL

1. EDGES .005-.020
2. FILLETS R .005-.020
3. ALL TWO PLACE DECIMAL DIMENSIONS ±.06
4. IDENTIFY AS "12585873" AND MFR NUMBER BY BAG, TAG, OR BOX
5. MATERIAL: CARBON FIBER EPOXY

Ø .281⁺-.008 THRU

8 PL

Ø .060	Ø .014	A	B	C
Ø .060	Ø .014	A	B	C



Ø .281⁺-.008
2 HOLES THRU
2 SURFACES IN LINE
WITHIN .001

Ø .060	Ø .014	A	B	C	D	E
Ø .060	Ø .014	A	B	C	D	E

PART NO.

ORIGINAL DATE OF DRAWING		DATE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE	
TOLERANCES ON DECIMALS = ± .015 FRACTIONS = ± .010 ANGLES = ± 1°		DATE	
THIRD ANGLE PROJECTION		DATE	
MECHANICAL PROPERTIES		DATE	
TEMP		DATE	
TENS		DATE	
ELI		DATE	
RA		DATE	
BM		DATE	
LTHD		DATE	
NEXT ASSY		DATE	
USED ON		DATE	
APPLICATION		DATE	
SHOCK MOUNT, FRONT		DATE	
SCALE 1/1		DATE	
SHEET 1 OF 1		DATE	

CAD STATUS USER 87/03/06 M20E72 LTLTRAY

4

OR BOX

5. MATERIAL:

CARBON FIBER EPOXY

—Ø .281+;.008 THRU

◆	Ø .060 (M)	A	B	C
	Ø .014 (M)	A		

Ø .281 +.008
2 HOLES THRU
2 SURFACES IN LINE
WITHIN .001

◆	$\phi .060$ (M)	C	D	E
	$\phi .014$ (M)	C		

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
FOUR, NEW JERSEY 07001-5001

SHOCK MOUNT,
REAR

SIZE	PAGE NO.	
C	19200	T-12585874/A
SCALE	1/1	UNIT BY CALIF. AEROSPACE

CAD STATUS USER 07/03/06 M20E72 LTLTRAY

3

12

4

DRAWING SIZE 8

1. EDGES .005-.020

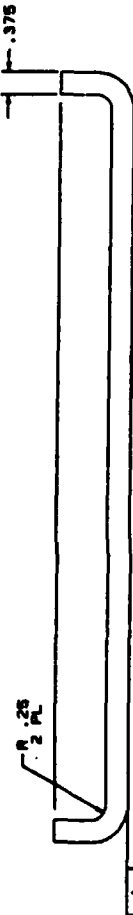
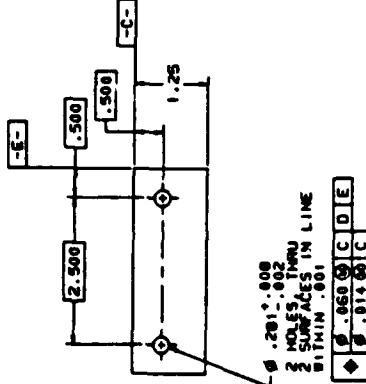
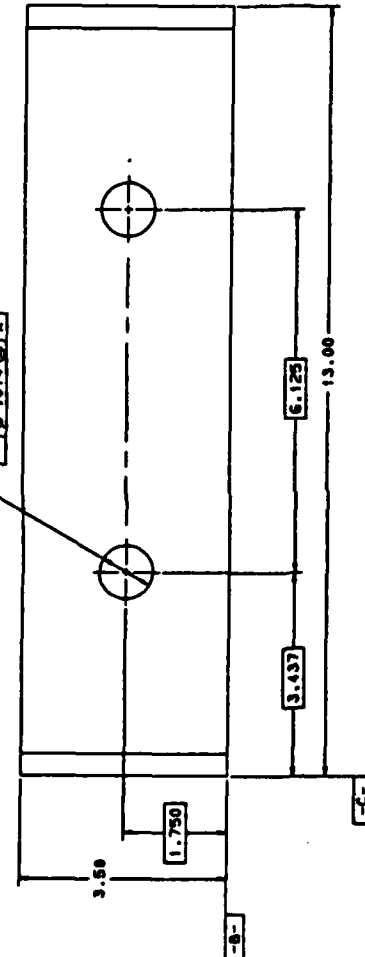
2. FILLETS .005-.020

3. UNLESS OTHERWISE SPECIFIED, A FEATURE SHALL BE CONSIDERED TO ANOTHER FEATURE UNLESS SPECIFICALLY NOTED OTHERWISE. THE TOLERANCE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE

4. IDENTIFY AS "DIMENSIONS" AND USE NUMBER BY DIM, TAG, OR DIM

5. MATERIAL: CARBON FIBER EPOXY

Ø .906^{±.010} THRU
2 PL
A B C
A B C
A B C



PART NO.

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BRACKET,
REAR SHOCK MOUNT

T-12585875/A

CAD: JARF, IVER 02/03/06, MVE / 1 11 MAY

4

- # PLASTIC



◆	Ø .060 (M)	A	B	C
	Ø .014 (M)	A		

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DAVEN, NEW JERSEY 07001
U.S. ARMY
100-1003384-0001

SHOCK MOUNT GUIDE, FRONT

1100	PACK NO.	T-12585876/A
C	19200	
SCALE		1/1 UNIT OF CALC. 80 LBS. WEIGHT OF 1

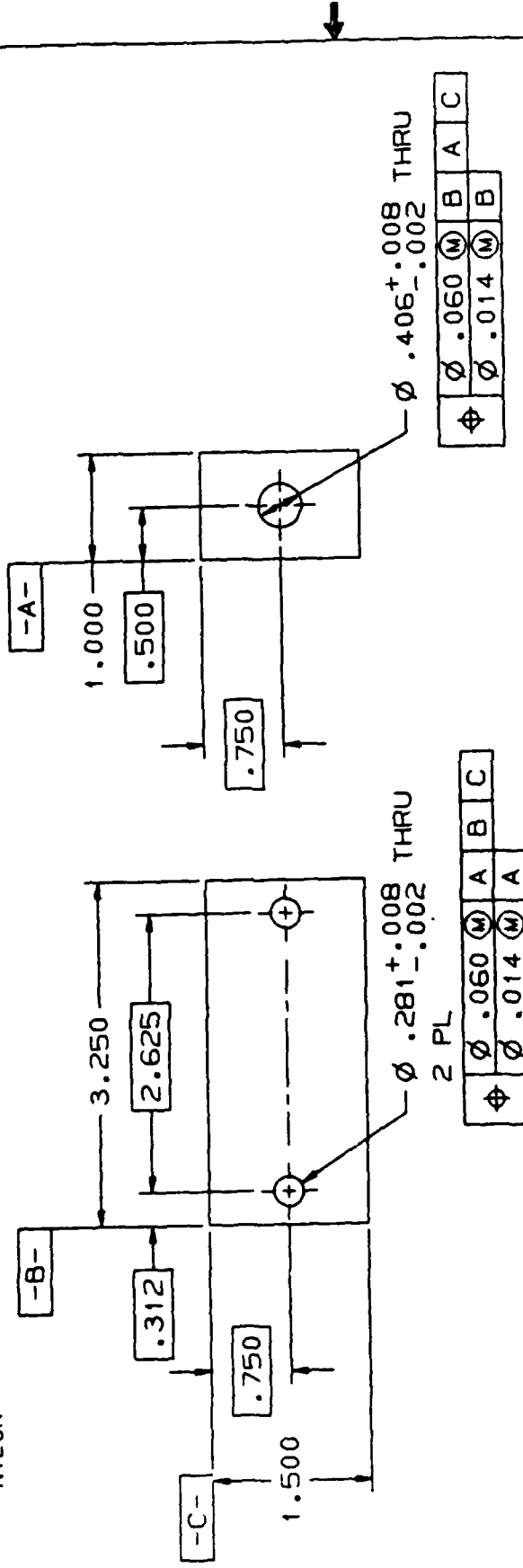
CAO STATUS USER 07/03/06 M20E72 1 TL TRAY

3.

12

DRAWING SIZE B

1. EDGES .005- .020
2. IDENTIFY AS "12585877"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL: NYLON



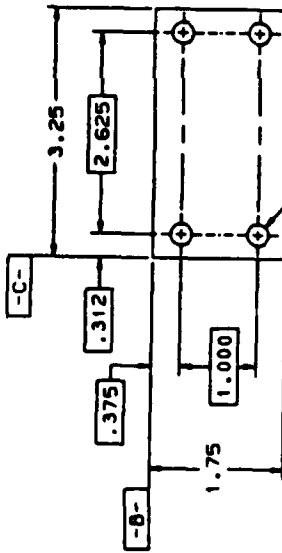
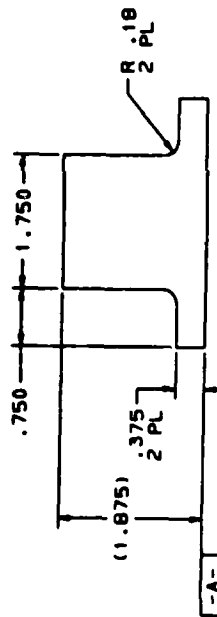
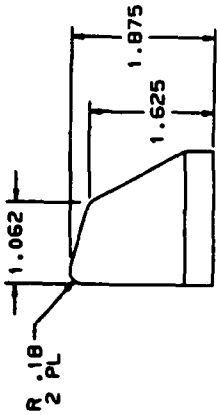
PART NO.

U. S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		PROJECTILE STOP MOUNTING	
SIZE B	FIG. NO. 19200	T-12585877/A	
SCALE 1/1	UNIT WT CALC. .16 LBS	SHEET 1 OF 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = ± .015 FRACTIONS = ± .005 ANGLES = ± 2°		THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES		ORIGINAL DATE OF DRAWING	
TP	TS	DRW S. HALVERSON	CHK
EL2	RA	ENGR	ENGR
BM	RM	ENGR	ENGR
LTHD USED ON			
APPLICATION			

CAN STATUS, ICR R7/03/09 M20E72 LTHTRAY

DRAWING SIZE C

1. EDGES .005-.020
2. FILLETS R .005-.020
3. ALL TWO PLACE DECIMAL DIMENSIONS ± .06
4. IDENTIFY AS "12585878" AND MFR NUMBER BY BAG, TAG, OR BOX
5. MATERIAL: NYLON



4 PL Ø .281 ± .008 THRU

◆	Ø .060 (M)	A	B	C
	Ø .014 (M)	A		

PART NO.

AMERICAN RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
MIDDEL, NEW JERSEY 07001-5001

PROJECTILE STOP
PAD

ORIGINAL DATE OF DRAWING	DATE OF REVISION	REVISION

DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED
	DIMENSIONS ARE IN INCHES
	TOLERANCES ON DECIMALS ± .010
	FRACTIONS ± .005
	ANGLES ± .5°
	THIRD ANGLE PROJECTION



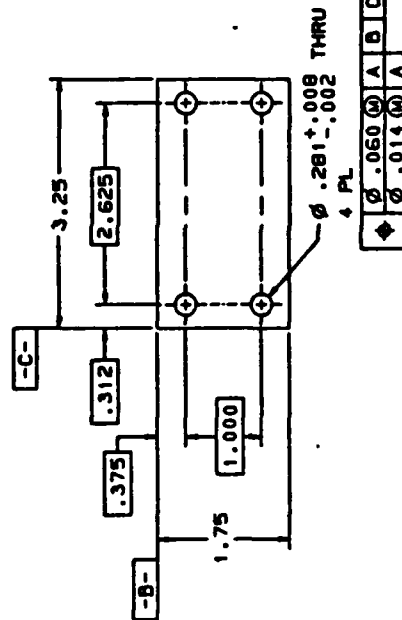
MECHANICAL PROPERTIES	APPLICATION
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1000	

CAD STATUS USER 87/03/10 M20E72 LTHTRAY

FORM NO. C 19200 T-12585878/A
SCALE 1/1 UNIT IN INCHES 1 OF 1

4

- NYLON**



**ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
BOYLE, NEW JERSEY 07001-5001**

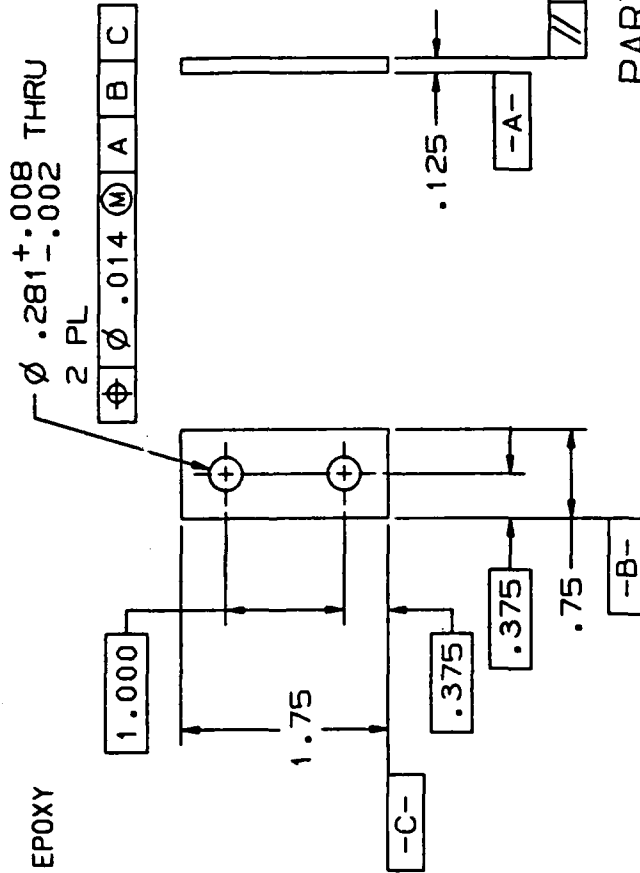
**CUSHION STOP
PAD**

FROM NO. 19200 T-12585880/A

CAD STATUS USER 07/03/09 M20E72 LTHTRAY

DRAWING SIZE B

1. EDGES .005-.020
2. ALL TWO PLACE DECIMAL DIMENSIONS $\pm .06$
3. IDENTIFY AS "12585881" AND MFR NUMBER BY BAG, TAG, OR BOX
4. MATERIAL: CARBON FIBER EPOXY



PART NO.

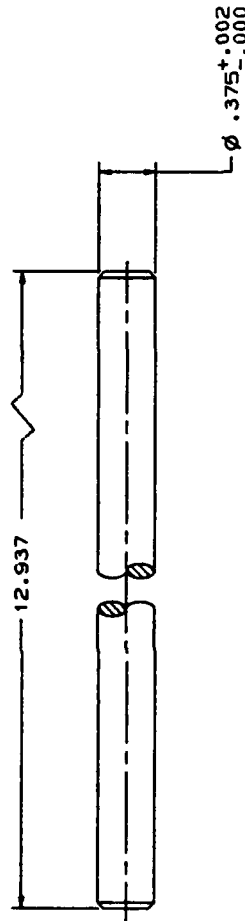
REVISIONS		SYMBOL		DESCRIPTION		DATE		APPROVAL	
<p>U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5801</p>									
<p>RETAINER, PLATE</p>									
SIZE		FECN NO.		T-12585881/A		SCALE		SHEET 1 OF 1	
B		19200				UNIT WT/CALC		.009 LBS	
ORIGINAL DATE OF DRAWING		DOE 87-2-1B		S. HALVERSON		CHK			
		ENGR		ENGR		ENGR			
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS = $\pm .015$		FRACTIONS = --- ANGLES = $\pm 2^\circ$	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION			
TP									
TS									
EL2									
RA									
BH									
MH									
LTHD									
NEXT ASSY		USED ON							
APPLICATION									

DRAWING SIZE C

1 2 3 4

REVISIONS		
REV	DESCRIPTION	DATE

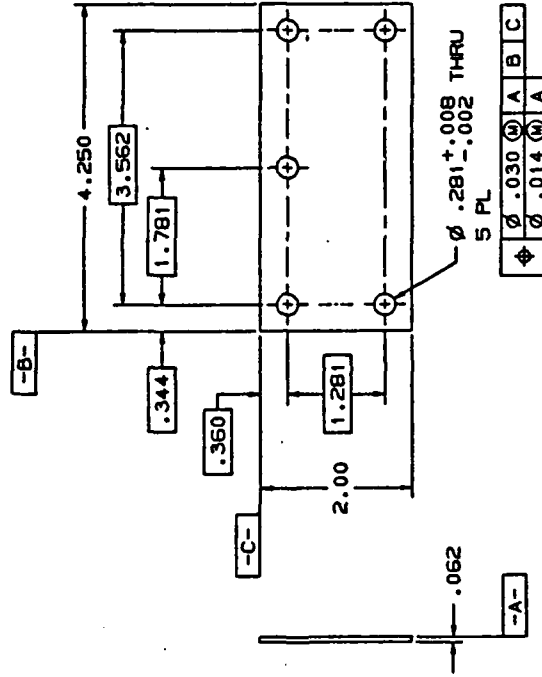
1. EXCEPT AS NOTED:
EDGES .005-.020
2. IDENTIFY AS "12585882"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL:
AL ALLOY
AA 6061-T6, T651
UNS A96061



U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DAYTON, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS - .005 FRACTIONS - 1/16 THIRD ANGLE PROJECTION		MECHANICAL PROPERTIES		APPLICATION	
PIN, PIVOT		REV 07-3-10 T. MCHIE		THIRD ANGLE PROJECTION		1P L/F 1S L/F 1E2 L/F 1A L/F 1M L/F 1N L/F		CJT NEXT ASSY USED ON	
DATE C 19200		REV CJT		THIRD ANGLE PROJECTION		1P L/F 1S L/F 1E2 L/F 1A L/F 1M L/F 1N L/F		CJT NEXT ASSY USED ON	
SCALE 2/1		UNIT DT		THIRD ANGLE PROJECTION		1P L/F 1S L/F 1E2 L/F 1A L/F 1M L/F 1N L/F		CJT NEXT ASSY USED ON	
T-12585882/A		1		THIRD ANGLE PROJECTION		1P L/F 1S L/F 1E2 L/F 1A L/F 1M L/F 1N L/F		CJT NEXT ASSY USED ON	

DRAWING SIZE C

1. EDGES .005-.020
2. FILLETS .005-.020
3. IDENTIFY AS "12585884" AND MFR NUMBER BY BAG, TAG, OR BOX
4. MATERIAL: NYLON



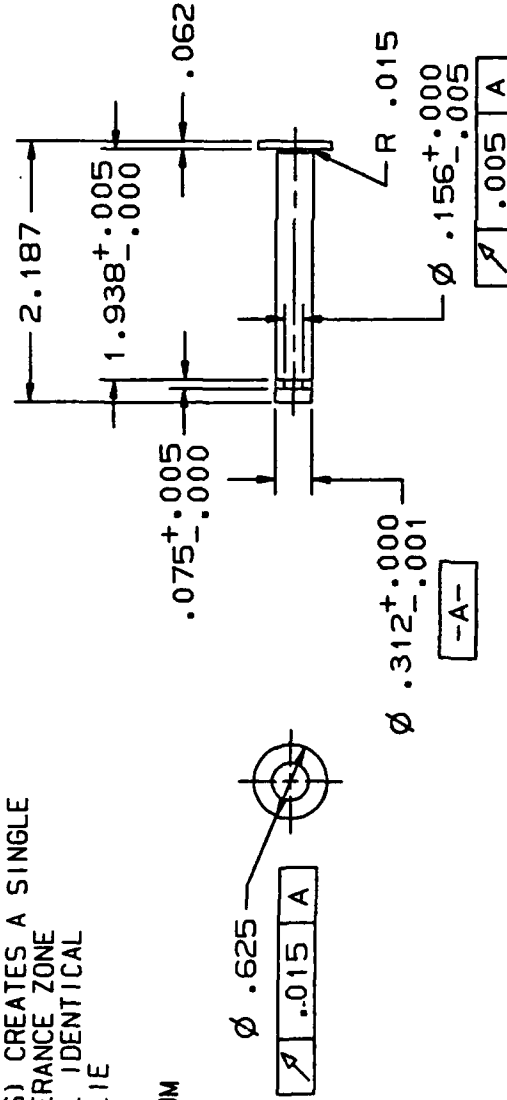
PART NO.

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED		DATE 87-5-18	
DIMENSIONS ARE IN INCHES		S. HALL/MDR	
TOLERANCES ON DECIMALS = ± .005		DATE	
FRACTIONS = 1/16 INCHES = 1/16		DATE	
THIRD ANGLE PROJECTION		DATE	
MECHANICAL PROPERTIES		APPLICATION	
TP TS EL RL RM		LTHO USED ON NEXT ASSY	
19 12 11 10 9 8 7 6 5 4 3 2 1		3 2 1	
19200 C		12585884/A 12585884/A	

CAD STATUS USER 87/03/04 M20E72 LTLTRAY

DRAWING SIZE B

1. EDGES .005-.020
2. FILLETS R .005-.020
3. IDENTIFY AS "12585886"
AND MFR NUMBER BY BAG, TAG,
OR BOX
4. NOTED DIMENSION(S) CREATES A SINGLE
CYLINDRICAL TOLERANCE ZONE
WITHIN WHICH ALL IDENTICAL
DIAMETERS MUST LIE
5. MATERIAL: TITANIUM



PART NO.

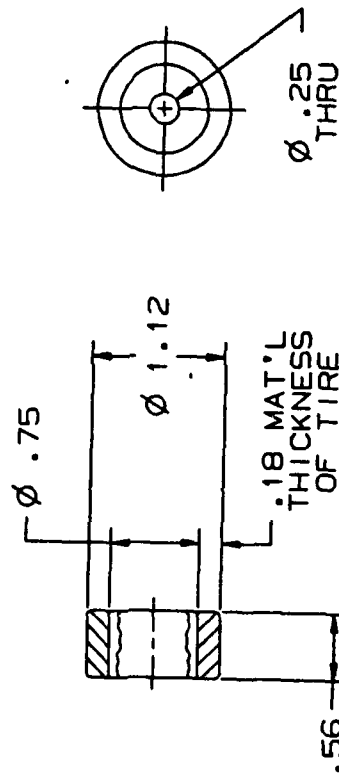
APPLICATION		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U. S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
		YP	TS	EL2	RA	BM	RM	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = ± .015 FRACTIONS = --- ANGLES = ± 2°	OWN 87-3-4 S. HALVERSON	CHK ENGR ENGR
NEXT ASSY LTHD USED ON				THIRD ANGLE PROJECTION				HEADED PIN	
SIZE B		FSCM NO. 19200		SCALE 1/1		UNIT WT CALC .06 LBS		SHEET 1 OF 1	
T-12585886/A									

DRAWING SIZE B

1. IDENTIFY AS "12585887"
AND MFR NUMBER BY BAG, TAG,
OR BOX

2. MATERIAL:
TORRINGTON
CAM FOLLOWER
NO. YCRS-12

REVISIONS		
SYM	DESCRIPTION	DATE



PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS = --- FRACTIONS = --- ANGLES = ---		ORIGINAL DATE OF DRAWING DWN 87-3-5 S. HALVORSON ENGR ENGR		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
THIRD ANGLE PROJECTION		ENGR		ROLLER	
MECHANICAL PROPERTIES		ENGR		SCALE 1/1	
YP	TS	EL2	RA	BH	RM
LTHD		USED ON		SIZE B	
APPLICATION		NEXT ASSY		PSCN NO. 19200	
CAD STATUS USER 87/03/04 M20E72 1 TLTRAY		T-12585887/A		SHEET 1 OF 1	

1. EDGES .005-.020
2. EXCEPT AS NOTED;
3. FILLETS R .005-.020
4. IDENTIFY AS "125856889" AND MFR NUMBER BY DAG, TAG, OR BOX

MATERIAL:

TITANIUM, 6AL4V, AMS 4928,
ANNEALED

R. 125 ✓
2 PLACES

Ø .281 +:008 THRU
2 HOLES

◆	Ø .060 (M)	A	B	C
	Ø .014 (M)	A		

◆	.005	Ⓢ	Ⓢ	Ⓢ
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-.312+.000

0.375

Ø .312⁺.005 THRU
Ø .014 (M) B C A

0.125⁺.005
0.125₋.000

[illegible]

ADDRESS: 2204 W. 11TH AVE. AND 11TH ST. N. S. 55001
MONTGOMERY, ALA. 36103

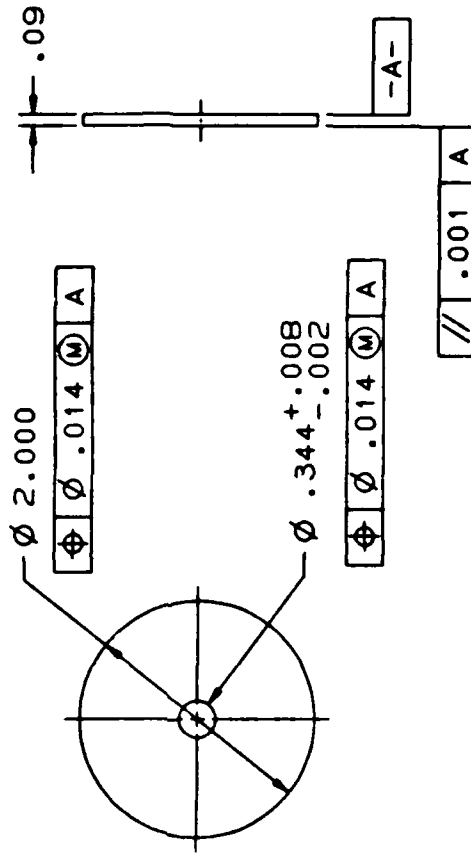
HINGE BRACKET, INNER

DATE	1920	1-12581111	A
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CAD STATUS USER 07/03/12 M20E94 LTND4

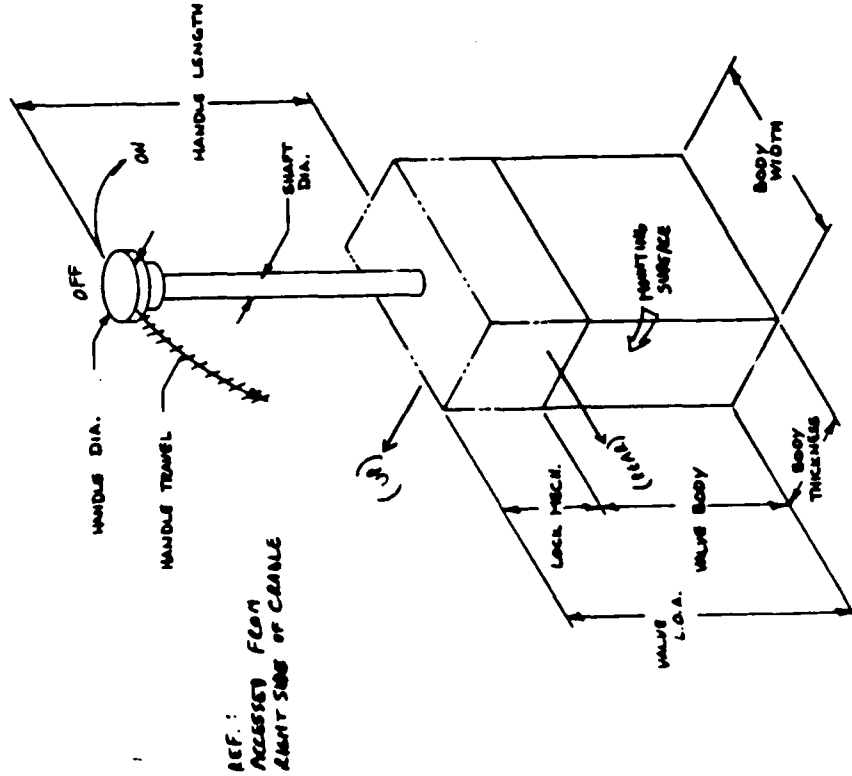
DRAWING SIZE B

1. EDGES .005--.020
2. IDENTIFY AS "12585890"
AND MFR NUMBER BY BAG, TAG,
OR BOX
3. MATERIAL: NYLON



PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
TP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		Rev 87-3-4	DATE	WASHER, BUMPER	
TS		TOLERANCES ON DECIMALS = ± .015		S. HOLVERSON	DATE	FSCN NO. 19200	
EL2		FRACTIONS = --- ANGLES = ± °		DATE	DATE	SIZE B	
BA		THIRD ANGLE PROJECTION		DATE	DATE	SCALE 1/1 UNIT BY CALC .03 LBS	
BH		THIRD ANGLE PROJECTION		DATE	DATE	SHEET 1 OF 1	
AP		THIRD ANGLE PROJECTION		DATE	DATE	T-12585890/A	
LITHO		THIRD ANGLE PROJECTION		DATE	DATE	UNIT BY CALC .03 LBS	
USED ON		THIRD ANGLE PROJECTION		DATE	DATE	SHEET 1 OF 1	
APPLICATION		THIRD ANGLE PROJECTION		DATE	DATE	SHEET 1 OF 1	



REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

VALVE NO. 05892

EQUILIBRATOR ON / OFF VALVE

WORKING PRESSURE 6000 PSI
 MAX. (PROOF) PRESSURE 9000 PSI
 MAX FLOW RATE 20 GPM
 PRES. DROP @ MAX FLOW 20 PSI
 CRACKING PRESSURE ----- PSI
 ACTUATION TIME ----- SEC.

VALVE TYPE 4 WAY / 2 POS.
 WEIGHT 2 lbs.

VALVE LENGTH (ALONG HANDLE AXIS) 10.375 in.
 BODY DIMENSIONS
 DEPTH 2.25 in.
 MOUNTING SURFACE: WEIGHT (PARALLEL TO HANDLES) 2.41 in.
 WIDTH 1.07 in.

VALVE POSITIONS TO BE ENGRAVED ON THE TOP OF THE ENDS.

NOTE: THIS VALVE IS PART OF THE "CAMMEEER ONE" MANIFOLD AND WILL BE SUPPLIED AS PART OF THAT ASSY.

FACE MOUNTED ON THE FRONT SURFACE OF THE FOM.

HANDLE TO LOCK IN BOTH THE ON AND OFF POSITIONS.

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Beacon Ave.
 Beacon, NJ 07005
 FBCH No. 1 1963A

Vendor part no. 1 813126

PART NO.

U.S. ARMY ARMAMENT RESEARCH DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001		EQUILIBRATOR ON/OFF VALVE	
ORIGINAL DATE OF DRAWING		SIZE FBCH NO. B 19200 T-12585892 /C	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		SCALE UNIT WT.	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	
YP	CRAFTSMAN S. JALCO	CHECKER	
TS	ENGR	ENGR	
EL2	ENGR	ENGR	
RA			
BH			
RH			
APPLICATION			
NEXT ASSY USED ON			

DRAWING SIZE 8

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

1. THE EQUILIBRATOR ON/OFF VALVE SHALL MEET THE FOLLOWING REQ'TS;


- THE TWO POSITIONS SHALL BE LABELLED "ON" AND "OFF".
- AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS IN EITHER POSITION SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL FROM EITHER POSITION.
- A FORCE OF GREATER THAN 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FROM EITHER POSITION.
- CONTROL SHALL NOT BE SPRING-LOADED TO EITHER POSITION BUT SHALL BE SPRING-LOADED OUTWARD AT BOTH POSITIONS TO RETURN THE CONTROL TO THE MAX OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.
- CONTROL SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE OFF POSITION.
- Movement of the control from off to on shall be horizontal and towards the front of the barrel.

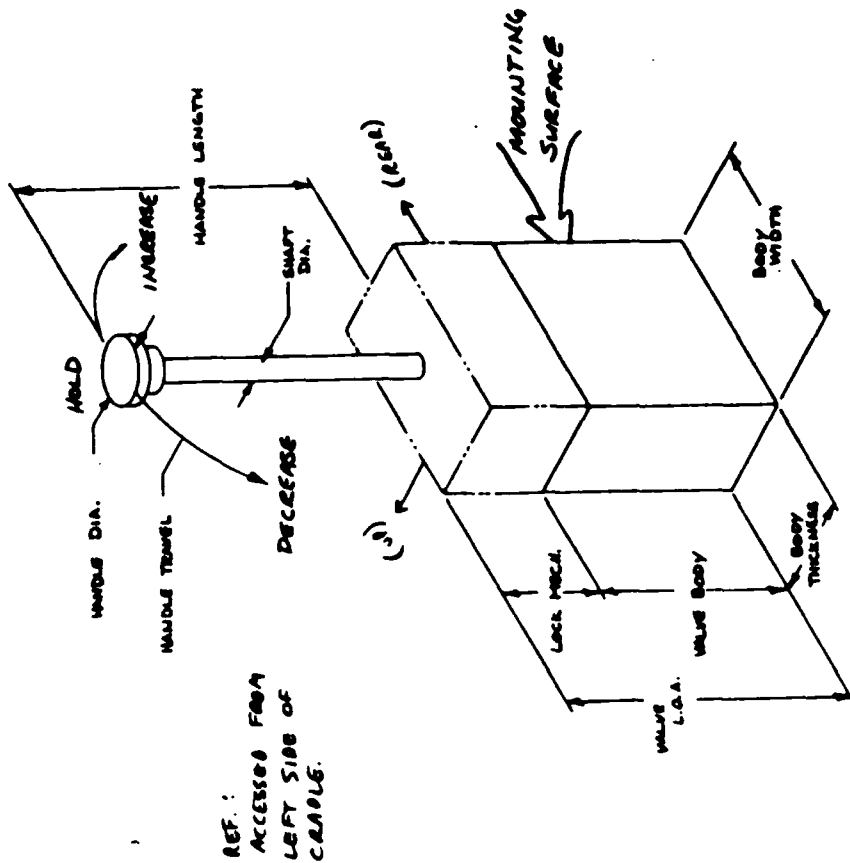
12585911	GENERAL CONTROL VALVE REQ'TS
12585710-440	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. Dwg.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER BOYER, NEW JERSEY 07003-9001	
EQUILIBRATOR ON/OFF VALVE	
SIZE B 19200	FSCH NO. T-12585892/B
SCALE	UNIT WT.
SHEET 2 OF 2	

MECHANICAL PROPERTIES	DO NOT SCALE DRAWING	ORIGINAL DATE OF DRAWING
YP	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAFTSMAN S. B. ACKO
TS	TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	CHECKER ENGR
EL2		ENGR
RA	THIRD ANGLE PROJECTION	ENGR
BH		ENGR
RH		
USED ON		
APPLICATION		





REVISIONS		
SYM	DESCRIPTION	DATE

VALVE NO. 05093

EMULINATOR PRESSURE ADJUSTMENT VALVE

WORKING PRESSURE 6000 PSI
 MAX. (PROOF) PRESSURE 9000 PSI
 MAX FLOW RATE 5 GPM
 PRES. DROP @ MAX FLOW 100 PSI
 CRACKING PRESSURE ---- PSI
 ACTUATION TIME ---- SEC.

VALVE TYPE 3 WAY / 3 POS.
 WEIGHT 2 lbs.

VALVE L.O.A. (ALONG HANDLE AXIS) 10.375 in.
 BODY DIMENSIONS
 DEPTH 2.25 in.
 MOUNTING SURFACE: HEIGHT (PARALLEL TO HANDLE) 2.41 in.
 WIDTH 1.07 in.

FACE MOUNTED ON THE FRONT SURFACE OF THE FEM.
 HANDLE TO SPRING RETURN FROM BOTH THE INCREASE AND DECREASE POSITIONS TO THE NULL POSITION AND LOCK IN THE NULL POSITION.

Suggested Source of Supply:
 Harette Scientific Controls, Inc.
 Dooton Ave.
 Dooton, NJ 07005
 FECH No. 1 79456

Vendor part no. 13112

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-0001		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-0001	
VALVE, EQUILIBRATE PRESSURE ADJUSTMENT		VALVE, EQUILIBRATE PRESSURE ADJUSTMENT	
SIZE B		FECH NO. T-12505093/C	
SCALE		UNIT WT.	
ORIGINAL DATE OF DRAWING		DRAWN BY	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHECKED BY	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		DRAWN BY	
THIRD ANGLE PROJECTION		DRAWN BY	
MECHANICAL PROPERTIES		DRAWN BY	
Y.P.		DRAWN BY	
T.S.		DRAWN BY	
E.L.		DRAWN BY	
R.A.		DRAWN BY	
B.H.		DRAWN BY	
R.H.		DRAWN BY	
NEXT ASSY		USED ON	
APPLICATION		APPLICATION	

REVISIONS			
YM	DESCRIPTION	DATE	APPROVAL

REQUIREMENTS:

THE UNIVERSITY OF CHICAGO

A THE THREE POSITIONS SHALL BE LABELLED, "INCREASE, HOLD" AND DECREASE WITH THE HOLD POSITION MIDWAY BETWEEN INCREASE & DECREASE POSITIONS

6 AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED
 TO ACHIEVE THE CONTROL FROM THE HOLD POSITION

C A FORCE ≥ 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FROM THE HOLD POSITION.

D. CONTROL SHALL BE SPRING-LOADED TO THE HOLD POSITION AND IN THE HOLD POSITION, THE CONTROL SHALL BE SPRING-LOADED OUTWARD TO RETURN THE CONTROL TO THE MAX. OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.

E. CONTROL SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND

F. MOVEMENT OF THE CAMEL TO THE INCREASE POSITION SHALL BE HORIZONTAL AND TOWARDS THE REAR OF THE BARREL.

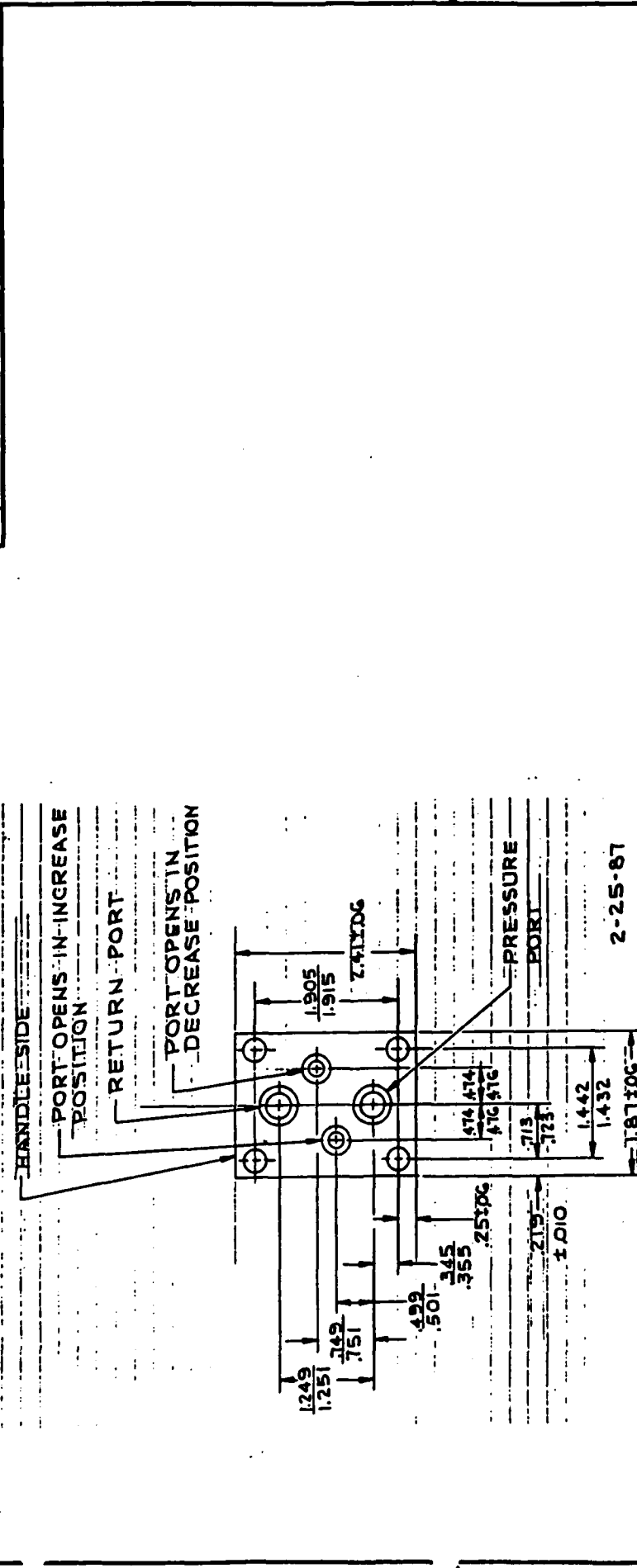
		GENERAL CONTROL VALUE REQ'TS
12585911		HYDRAULIC FUNCTIONAL
12585710 - 460		ENVIRONMENTAL REQ'TS
12585711		
REF. DWG.		DESCRIPTION

PART NO.

[illegible]

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE



PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
VALUE, EQUILIBRATOR PRES. ADJUST.		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
SIZE B	FORM NO. 19200	DRAFTSMAN D. WATKINS	CHECKER ENGR
SCALE	UNIT WT.	ENGR	ENGR
TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION		TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION	
NEXT ASSY USED ON		THIRD ANGLE PROJECTION	
APPLICATION		THIRD ANGLE PROJECTION	
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
T-12505093 / A		SHEET 3 OF 3	

DRAWING SIZE B

1. THE EQUILIBRATOR PRESSURE GAGE SHALL MEET THE FOLLOWING REQ'TS:

A. THE PRESSURE GAGE DISPLAY SHALL INCLUDE A RANGE OF

4000 TO 10,000 PSI.

B. THE PRESSURE RANGE OF 4900 TO 5100 PSI SHALL BE COLORED

BRIGHT GREEN ON THE DIAL FACE, WITH ALL OTHER REGIONS

COLOR BRIGHT RED.

C. THE WORDS "TOO LOW" SHALL BE WRITTEN IN THE

REGION < 4900 PSI AND "TOO HIGH" SHALL BE

WRITTEN IN THE REGION > 5100 PSI.

D. THE DIAMETER OF THE GAGE FACE SHALL BE 3.0 INCHES \pm 0.5 INCHES

E. THE GAGE SHALL BE GLYCERIN - FILLED, SILICONE-FILLED OR DRY AND

SHOCK-RESISTANT. THE GAGE SHALL BE SNUBBED.

F. REQUIREMENTS A-C CAN BE IGNORED FOR DEMONSTRATOR AND A 0 TO

8,000 PSI GAGE SUBSTITUTED.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
-----	-------------	------	----------

VALVE NO. #5094-001

EQUILIBRATION PRESSURE TEST VALVE

WORKING PRESSURE 4000 PSI
MAX. (PROOF) PRESSURE 9000 PSI
MAX FLOW RATE 5
PRES. DROP @ MAX FLOW 100 PSI
CRACKING PRESSURE ---- PSI
ACTUATION TIME ---- SEC.

VALVE TYPE 3 WAY / 2 POS.
WEIGHT 3 lbs.

VALVE LENGTH (ALONG HANDLE AXIS) 10.375 in.
BODY DIMENSIONS 2.25 in.
MOUNTING SURFACE HEIGHT (PARALLEL TO HANDLE) 2.41 in.
WIDTH 1.07 in.

VALVE TO BE FACE MOUNTED ON THE FSN.

HANDLE TO SPRING RETURN TO AND LOCK IN THE GAGE OFF POSITION.

Suggested Source of Supply:
Hartelle Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN No. 1 99434

Vendor part no. 1

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN	
TS				S. BACKED	
EL2				ENGR	
RA		TOLERANCES ON DECIMALS & ANGLES &		ENGR	
BH		FRACTIONS &		ENGR	
RH		THIRD ANGLE PROJECTION		ENGR	
NEXT ASSY		USED ON			
APPLICATION					
U.S. ARMY		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER		DOVER, NEW JERSEY 07001-0001	
EQUILIBRATOR PRESSURE GAGE		FSCM NO. B 19200		T-12585094-001 / C	
SCALE		UNIT WT.		SHEET 1 of 1	

REVISIONS	
SYM.	DESCRIPTION
DATE	APPROVAL

Suggested Source of Supply:
Barrett Scientific Controls, Inc.
Burlington Ave
Burlington, NJ 07003
P.O. Box 9637
Hudson Part No. 1

ALTERNATE CONFIGURATION:
PUSH BUTTON.

REF.: ACCESSED FROM LEFT SIDE OF CABLE.

Diagram labels include: HANDLE DIA., HANDLE TRAVEL, GAGE OFF, SHAFt DIA., HANDLES LENGTH, TEST, VALVE L.O.A., LOCK MECH., VALVE BODY, BODY THICKNESS, BODY WIDTH, MOUNTING SURFACE, and (REAR).

VALVE NO. 0534

EQUILIBRATOR PRESSURE TEST VALVE

WORKING PRESSURE	1000 PSI
PROOF PRESSURE	1500 PSI MIN
MAX FLOW RATE	3 GPM
PRES. DROP @ MAX FLOW	100 PSI MAX
CHECKING PRESSURE	-- PSI MAX
ACTUATION TIME	-- SEC.
VALVE TYPE	3 WAY 1/2 PDS.
HEIGHT	TOD
VALVE L.B.A.	3.5 IN.
BODY THICKNESS	1.5 IN.
BODY WIDTH	2.5 IN.

VALVE TO BE FACE MOUNTED ON THE FBH.

HANDLE TO SPRING RETURN TO AND LOCK IN THE GAGE OFF POSITION.

PART NO.

ORIGINAL DATE OF DRAWING	U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001
DRAFTSMAN S. BACKO	CHECKER
ENGR	ENGR
ENGR	ENGR
EQUILIBRATOR PRESSURE TEST VALVE	
SIZE B 19200	FSCM NO. T-12595894-001 /C
SCALE	UNIT WT.
SHEET 1 of 2	

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

THE EQUILIBRATOR PRESSURE TEST VALVE SHALL MEET THE FOLLOWING REQ'TS:

- THE TWO POSITIONS SHALL BE LABELLED "GAGE OFF" AND "TEST."
- AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS IN THE "GAGE OFF" POSITION SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL FROM "GAGE OFF" POSITION.
- A FORCE ≥ 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FROM "GAGE OFF" POSITION.
- CONTROL SHALL BE SPRING-LOADED TO "GAGE OFF" POSITION AND SHALL BE SPRING-LOADED OUTWARD AT "GAGE OFF" POSITION TO RETURN THE CONTROL TO THE MAX. OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.
- CONTROL SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE "GAGE OFF" POSITION.
- MOVEMENT OF THE CONTROL FROM "GAGE OFF" TO "TEST" SHALL BE HORIZONTAL AND TOWARDS THE FRONT OF THE BARREL.
- ALTERNATE CONFIGURATION MAY BE A PUSH BUTTON.

1258 5911	GENERAL CONTROL VALVE REQ'TS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
EQUILIBRATOR PRESSURE TEST VALVE	
SIZE B	FSCM NO. 19200
SCALE	UNIT WT.
T-12585894-002 / A	
SHEET 2 OF 2	
ORIGINAL DATE OF DRAWING	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES	
YP	
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EL2	
RA	
BH	
RH	
NEXT ASSY	
USED ON	
APPLICATION	

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION		
<p>VALVE NO. 5895</p> <p>CANNON POSITION / EMPLACE CONTROL</p>			
<p>WORKING PRESSURE 3000 PSI</p> <p>MAX. (PROOF) PRESSURE 4500 PSI</p> <p>MAX FLOW RATE 12 GPM</p> <p>PRES. DROP @ MAX FLOW 100 PSI</p> <p>CRACKING PRESSURE -- PSI</p> <p>ACTUATION TIME -- SEC.</p> <p>VALVE TYPE 3 WAY / 3 POS.</p> <p>WEIGHT 2 lbs.</p> <p>VALVE LENGTH (ALONG HANDLE AXIS) 10.375 in.</p> <p>BODY DIMENSIONS</p> <p>DEPTH 2.25 in.</p> <p>MOUNTING SURFACE</p> <p>HEIGHT (PARALLEL TO HANDLE) 2.41 in.</p> <p>WIDTH 1.87 in.</p> <p>VALVE TO FACE MOUNT ON THE FRONT SIDE OF THE FSM.</p> <p>HANDLE TO BE SPRING RETURNED TO AND LOCKED IN THE HOLD POSITION.</p> <p>Suggested Source of Supply: Heretta Scientific Controls, Inc. Boonton Ave. Boonton, NJ 07005 FSCM No. 1 99656</p> <p>Vendor part no.:</p>			

Labels: HOLD, HANDLE DIA., HANDLE TRAVEL, HANDLE LENGTH, SHAFT DIA., (UP), MOUNTING SURFACE, BODY WIDTH, BODY THICKNESS, LOCK MECH., VALVE L.O.A., VALVE BODY.

REF: ASSEMBLED FROM RIGHT SIDE OF CRADLE.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-9001

CANNON POSITION / EMPLACE CONTROL

SIZE B **FSCM NO.** 19200 **T-12585895** / D

SCALE **UNIT WT.** **SHEET 1 of 3**

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHECKER	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		DRAFTSMAN	ENGR
THIRD ANGLE PROJECTION		ENGR	ENGR

MECHANICAL PROPERTIES		APPLICATION	
YP		NEXT ASSY	USED ON
TS			
EL2			
RA			
BH			
RH			


DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

1. THE CANNON-POSITION EMLACE CONTROL SHALL MEET THE FOLLOWING REQ'TS:
- A. THE THREE POSITIONS SHALL BE LABELLED "EMPLACE," "HOLD" AND "TOW," WITH THE HOLD POSITION MIDWAY BETWEEN EMLACE AND TOW.
- B. AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED POOR TO DISPLACING THE CONTROL FROM THE HOLD POSITION
- C. A FORCE ≥ 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FROM THE HOLD POSITION.
- D. CONTROL SHALL BE SPRING-LOADED TO THE HOLD POSITION AND IN THE HOLD POSITION, THE CONTROL SHALL BE SPRING-LOADED OUTWARD TO RETURN THE CONTROL TO THE MAX. OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.
- E. CONTROL SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE HOLD POSITION.
- F. MOVEMENT OF THE CONTROL TO THE TOW POSITION SHALL BE HORIZONTAL AND TOWARDS THE REAR OF THE BARREL

12585911	GENERAL CONTROL VALVE REQ'TS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN	CHECKER
TS				ENGR	ENGR
EL2		TOLERANCES ON DECIMALS * ANGLES *		ENGR	ENGR
FA		THIRD ANGLE PROJECTION			
BH					
MH					
NEXT ASSY		USED ON			
APPLICATION					
U.S. ARMY		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER		DOVER, NEW JERSEY 07801-5001	
CANNON POSITION - EMLACE CONTROL		SIZE		FSCM NO.	
		B 19200		T-12585895 /B	
		SCALE		UNIT WT.	
				SHEET 2 OF 3	

DRAWING SIZE 8

SYN		REVISIONS	
DESCRIPTION	DATE	APPROVAL	
<p>DO NOT SCALE DRAWING</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *</p> <p>THIRD ANGLE PROJECTION</p>		<p>ORIGINAL DATE OF DRAWING</p> <p>DRAFTSMAN S. W. M. L. U. S. A. R. M. Y. ENGR</p> <p>CHECKER ENGR</p>	
<p>MECHANICAL PROPERTIES</p> <p>YP TS EL2 RA BH RH</p>		<p>U. S. A. R. M. Y. ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001</p>	
<p>APPLICATION</p> <p>NEXT ASSY USED ON</p>		<p>CANNON POSITION / EMPLACE CONTROL</p>	
<p>PART NO.</p>		<p>SIZE B 19200</p>	
<p>SCALE</p>		<p>UNIT WT.</p>	
<p>APPROVAL</p>		<p>T-12565895 / A</p>	
<p>SHEET 3 OF 8</p>		<p>SHEET 3 OF 8</p>	

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

VALVE NO. 5896

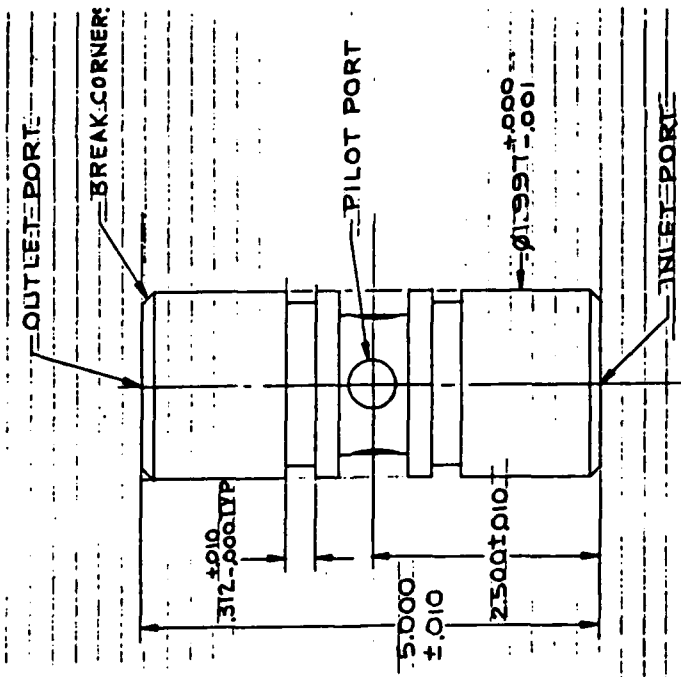
CHECK VALVE, PILOT OPERATED

WORKING PRESSURE 5400 PSI
MAX. (PROOF) PRESSURE 8400 PSI
MAX FLOW RATE 30 GPM
PRES. DROP @ MAX FLOW 500 PSI
CRACKING PRESSURE 5 PSI
ACTUATION TIME N/A SEC.

VALVE TYPE PILOT OPERATED CHECK
WEIGHT 18a.
VALVE SIZE 1.997 \pm 0.001 in.
DIAMETER 3.001a.
LENGTH
MOUNTING METHOD CART, RETAINED WITH SAE PLUS

Suggested Source of Supply:
Naratta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No.: 99454

Vendor part no.:



Suggested Source of Supply:
Naratta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No.: 99454
Vendor Part No.:

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-6001	
CHECK VALVE, PILOT OPERATED	
SIZE B	FSCM NO. 19200
SCALE 1/1	UNIT WT. T-12505896 /A
SHEET 1 of 1	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	DRAFTSMAN D. J. KAWAICH ENGR
THIRD ANGLE PROJECTION	CHECKER ENGR
MECHANICAL PROPERTIES	ENGR
YP	
TS	
EL2	
RA	
BM	
RM	
NEXT ASSY	USED ON
APPLICATION	

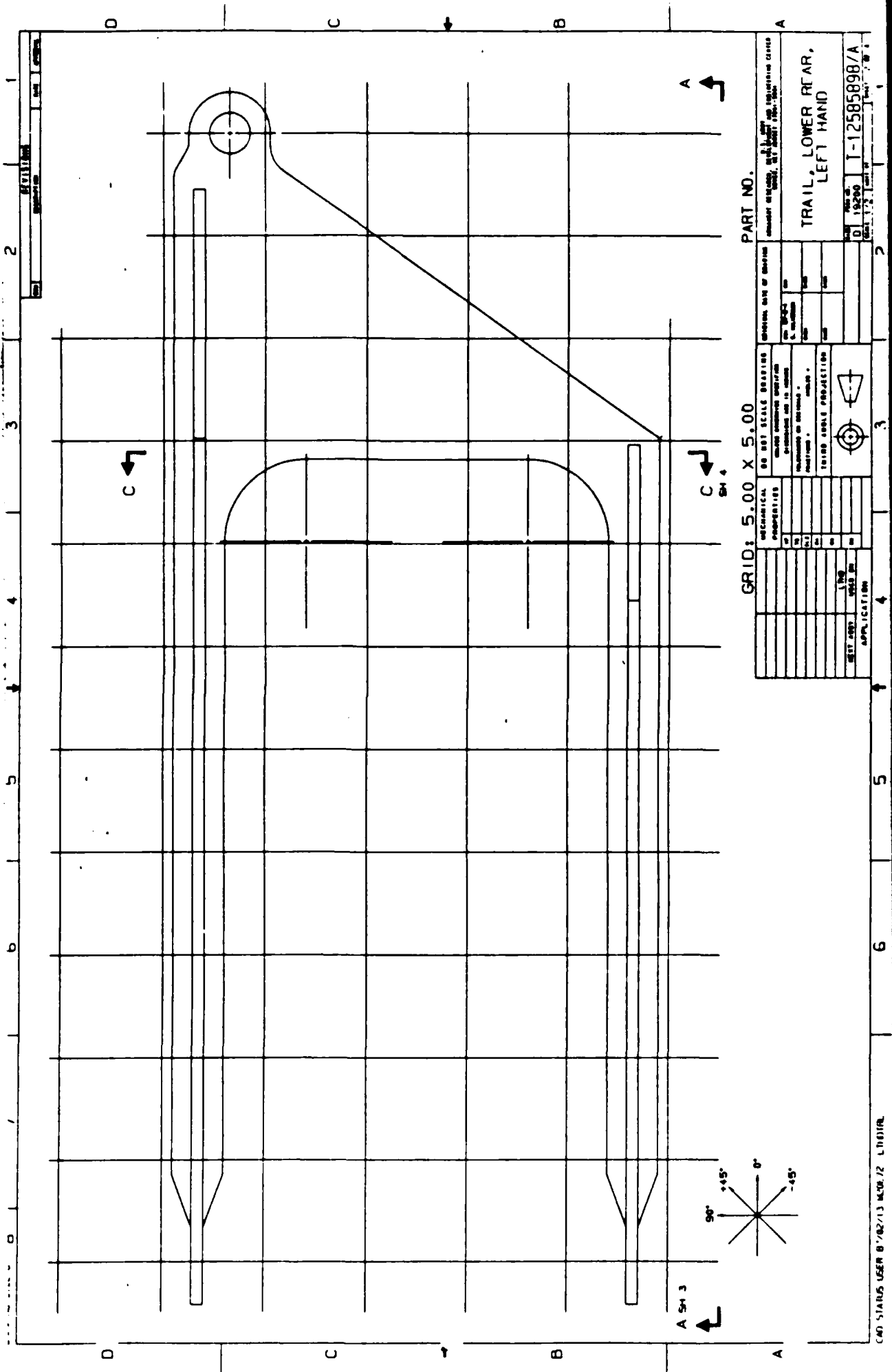
4. FIBER ORIENTATION TOLERANCE SHALL BE
± 5° FOR WOVEN FABRIC

MATERIAL TABLE CONT.					
PATT	MAT'L	ORIENT	QTY		
P081	W6	0°	1		
P082	W6	45°	1		
P083	W6	90°	1		
P084	W6	0°	1		
P085	W6	-45°	1		
P086	W6	90°	1		
P087	W6	0°	1		
P088	W6	45°	1		
P089	W6	90°	1		
P090	W6	0°	1		
P091	W6	-45°	1		
P092	W6	90°	1		
P093	W6	0°	1		
P094	W6	45°	1		
P095	W6	-45°	1		
P096	W6	45°	1		
P097	W6	45°	1		
P098	W6	-45°	1		
P099	W6	45°	1		
P100	W6	0°	1		
P101	W6	90°	1		
P102	W6	-45°	1		
P103	W6	0°	1		
P104	W6	90°	1		
P105	W6	45°	1		
P106	W6	0°	1		
P107	W6	45°	1		
P108	W6	90°	1		
P109	W6	0°	1		
P110	W6	-45°	1		
P111	W6	90°	1		
P112	W6	0°	1		
P113	W6	45°	1		
P114	W6	90°	1		
P115	W6	0°	1		
P116	W6	-45°	1		
P117	W6	90°	1		
P118	W6	0°	1		

1

TRAIL, LOWER REAR,
LEFT HAND

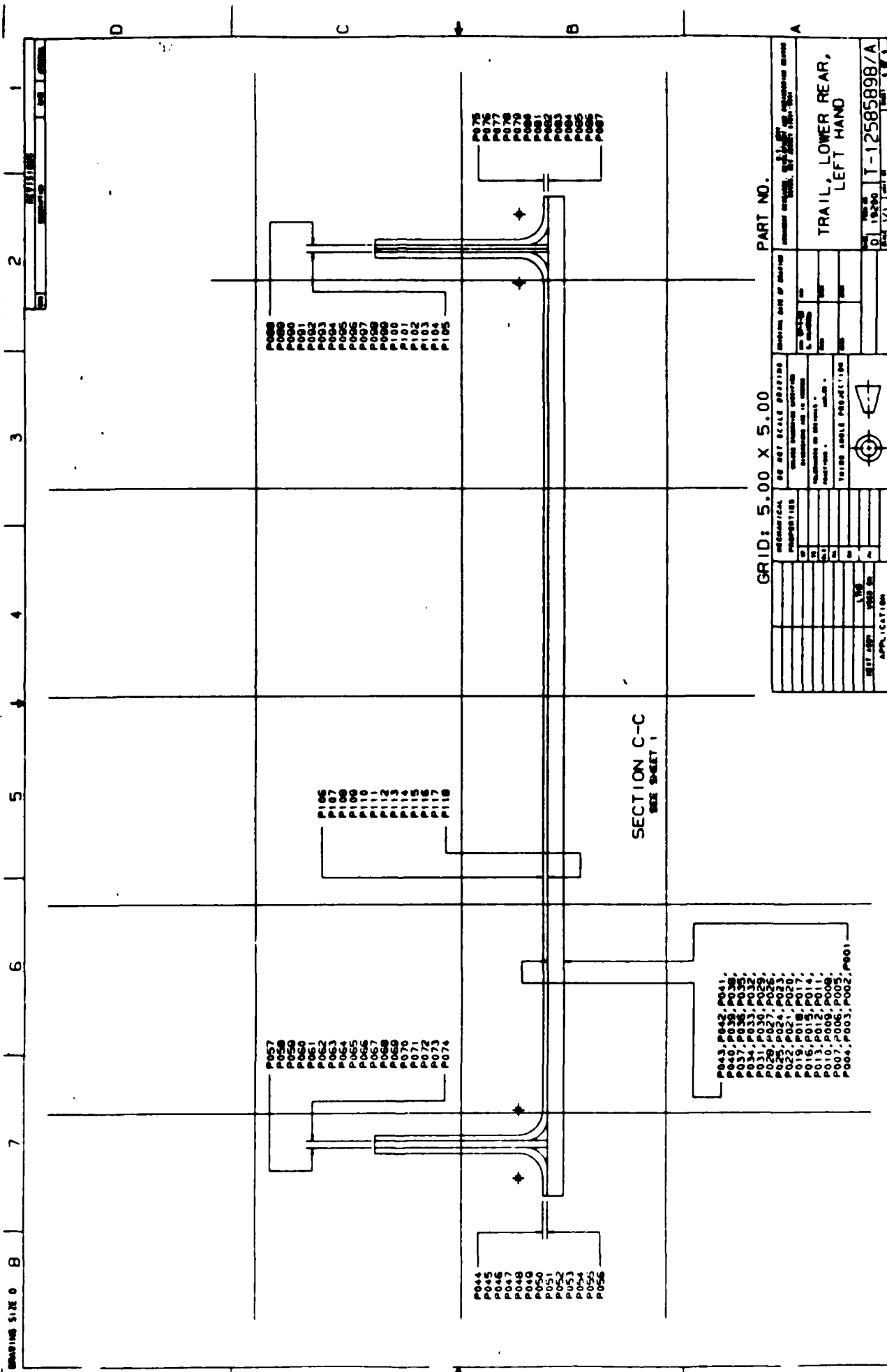
FILE NO.	19290	T-12585898/A
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PART NO.

[illegible]



DRAWING SIZE 0 8

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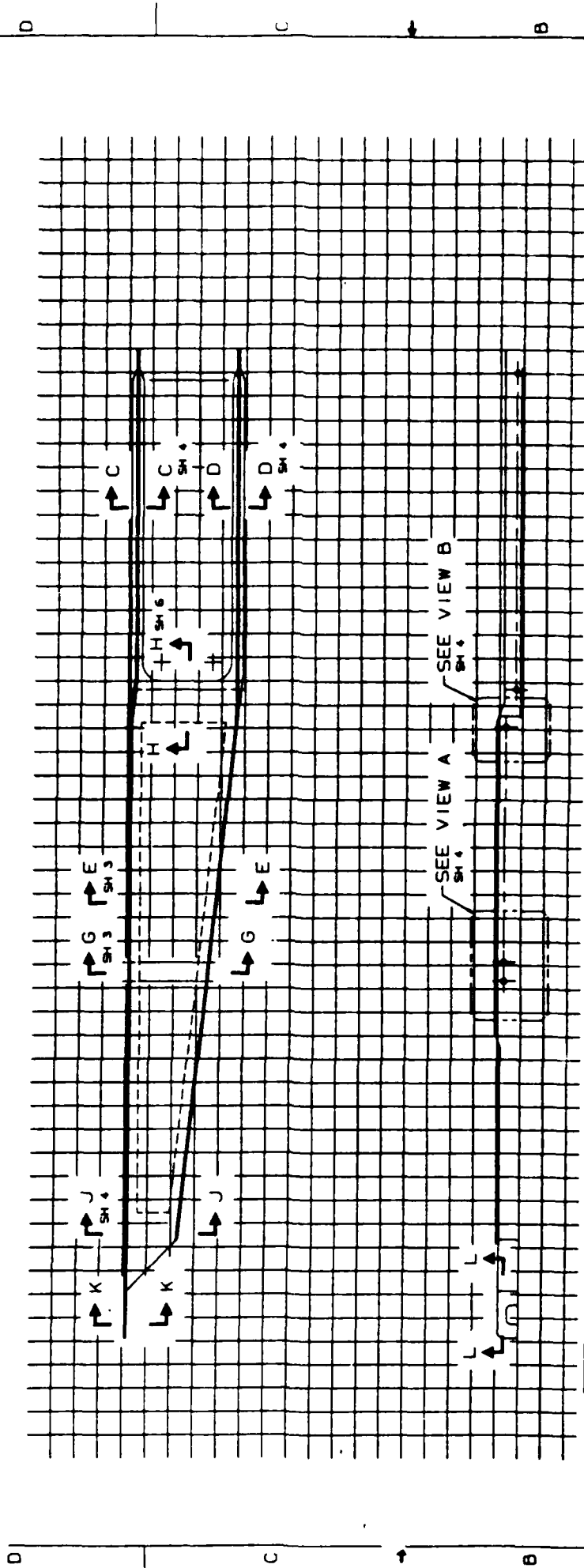
4

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SECTION K-K
ROTATED 90° CCW
SCALE: 1/1
GRID: 5.0 X 5.0

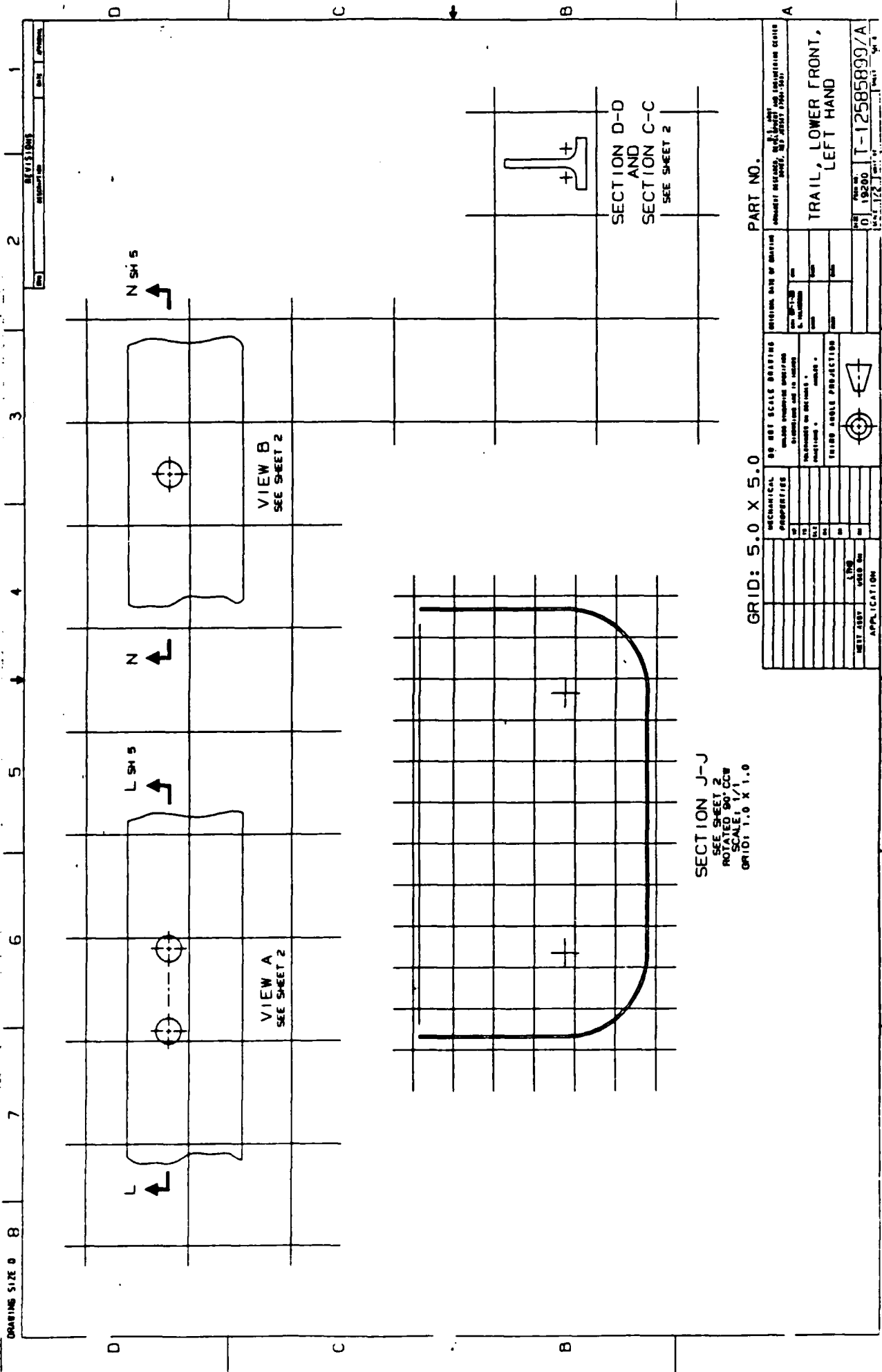


P044
P051
P055
P064
P117
P113
P106

GRID: 5.0 X 5.0

PART NO.

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REVISIONS		DATE	BY	CHKD
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PART NO.

GRID: 5.0 X 5.0

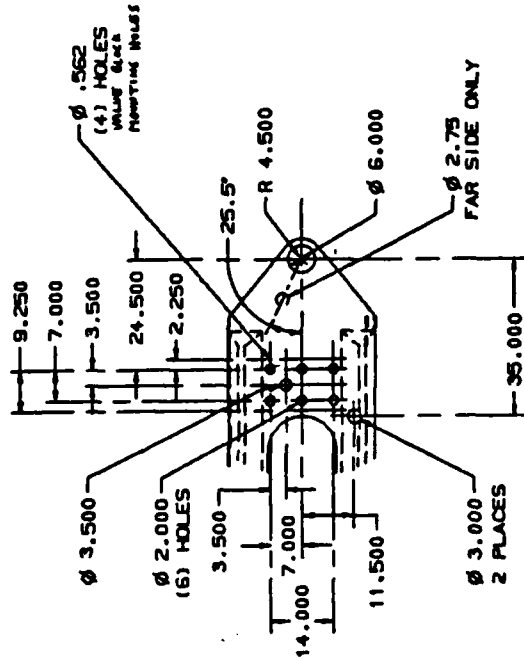
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TRAIL, LOWER FRONT,
LEFT HAND

1-12585899/A

DRAWING SIZE B

Suggested Source of Supply:
Barretto Scientific Controls, Inc.
Benton Ave
Benton, NJ 07006
FSCN 980 94537
Vendor Part No. 1



CABLE WALL THICKNESS: $\frac{1}{8}$ " MIN. - $\frac{1}{2}$ " MAX.

ACCUMULATED PRESSURE GAGE

ACCUMULATOR
PRESSURE TEST

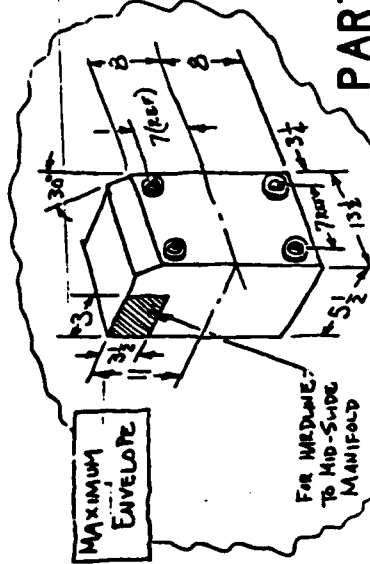
RAM CONTROL

PRIMER CONTROL

BREACH BLOCK CONTROL

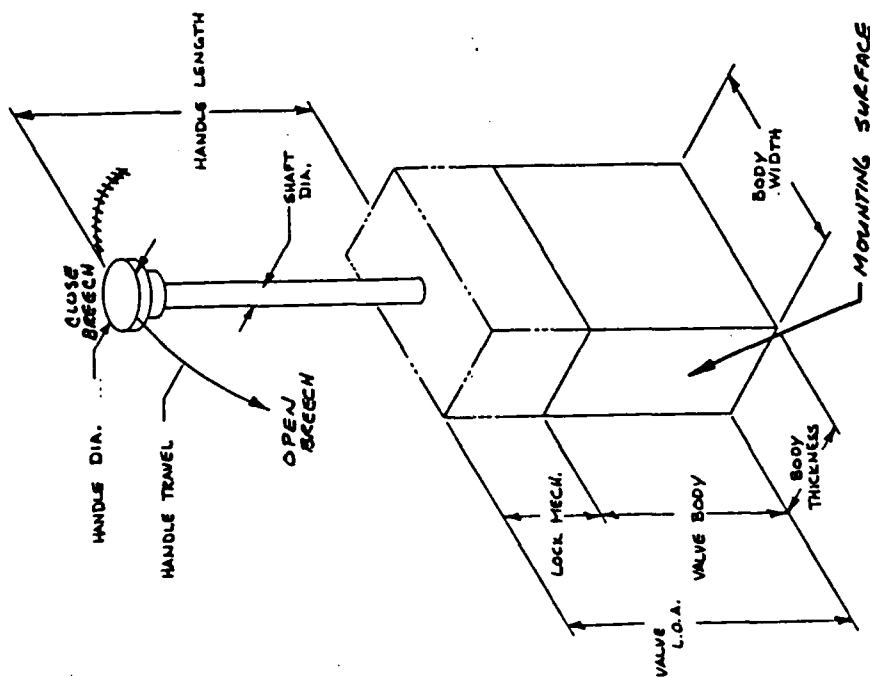
CANNON POSITION-LOADING CONTROL

CANNON CONTROL



PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
TS		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		DRAFTSMAN S. BACKO	
EL2		THIRD ANGLE PROJECTION		ENGR	
RA				ENGR	
SH				ENGR	
RH					
NEXT ASSY		USED ON			
APPLICATION					
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		CANNONEER I VALVE BLOCK			
SIZE		FSCN NO.		UNIT WT.	
B 19200		T-12585900/C		SHEET 1 of 1	



Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Bounton Ave.
 Bounton, NJ 07003
 FSCN No. 99454
 Vendor Part No. 1

BREECH BLOCK CONTROL
 (CANNONEER 1 MANIFOLD)

WORKING PRESSURE 3000 PSI
 MAX. (PROOF) PRESSURE 4500 PSI
 MAX FLOW RATE 5 GPM
 PRES. DROP @ MAX FLOW 100 PSI
 CRACKING PRESSURE --- PSI
 ACTUATION TIME --- SEC.

VALVE TYPE 3 WAY / 2 POS.
 WEIGHT (REF) 3.0 lbs.

HANDLE LENGTH (beyond valve body) 5.93 in.

VALVE POSITIONS TO BE ENGRAVED ON THE TOP OF THE KNOB.

NOTE: THIS VALVE IS PART OF THE "CANNONEER ONE" MANIFOLD AND WILL BE SUPPLIED AS PART OF THAT ASSY

HANDLE TO LOCK IN OPEN AND CLOSED POSITIONS.

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Bounton Ave.
 Bounton, NJ 07003
 FSCN No. 99454

Vendor part no.:

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
VALVE, BREECH BLOCK CONTROL	
SIZE B 19200	FSCN NO. T-12585900-001 / C
SCALE	UNIT WT.
SHEET 1 OF 2	

ORIGINAL DATE OF DRAWING	DRAFTSMAN S. LACKO	CHECKER ENGR
DO NOT SCALE DRAWING. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	TOLERANCES ON DECIMALS * FRACTIONS *	ANGLES *
THIRD ANGLE PROJECTION		

MECHANICAL PROPERTIES	YP TS EL2 RA BH RH
APPLICATION	NEXT ASSY USED ON

DRAWING SIZE B


REVISIONS		
SYM	DESCRIPTION	DATE

1. THE BREECH BLOCK CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:

- THE TWO POSITIONS SHALL BE LABELED "OPEN" AND "CLOSE."
- AN INWARD - DISPLACEMENT ALONG THE SHAFT AXIS IN EITHER POSITION SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL LEVER FROM EITHER POSITION.
- A FORCE OF GREATER THAN 2 LBS PERPENDICULAR TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL LEVER FROM EITHER POSITION.
- CONTROL LEVER SHALL NOT BE SPRING LOADED TO EITHER POSITION BUT SHALL BE SPRING LOADED OUTWARD AT BOTH POSITIONS TO RETURN THE CONTROL TO THE MAX. OUTWARD POSITION WHEN RELEASED FROM A INWARD - DISPLACED POSITION.
- CONTROL LEVER SHALL BE MOVABLE SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE CLOSE POSITION.
- TO MOVE THE CONTROL LEVER TO THE OPEN POSITION, THE DIRECTION OF MOVEMENT SHALL BE HORIZONTAL AND TOWARDS THE FRONT OF THE BARREL.

12585900	CANNON/LEE VALVE BLOCK
12585911	GENERAL CONTROL VALVE PARTS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
		DRAFTSMAN S. DICKO ENGR	
VALVE, BREECH BLOCK CONTROL		CHECKER	
		ENGR ENGR	
SIZE B		FSCM NO. 19200	
SCALE 1/4"		UNIT WT. 1-12585910-001 / 8	
APPLICATION USED ON		THIRD ANGLE PROJECTION 	

DRAWING SIZE 8

REVISIONS		
SYM	DESCRIPTION	DATE

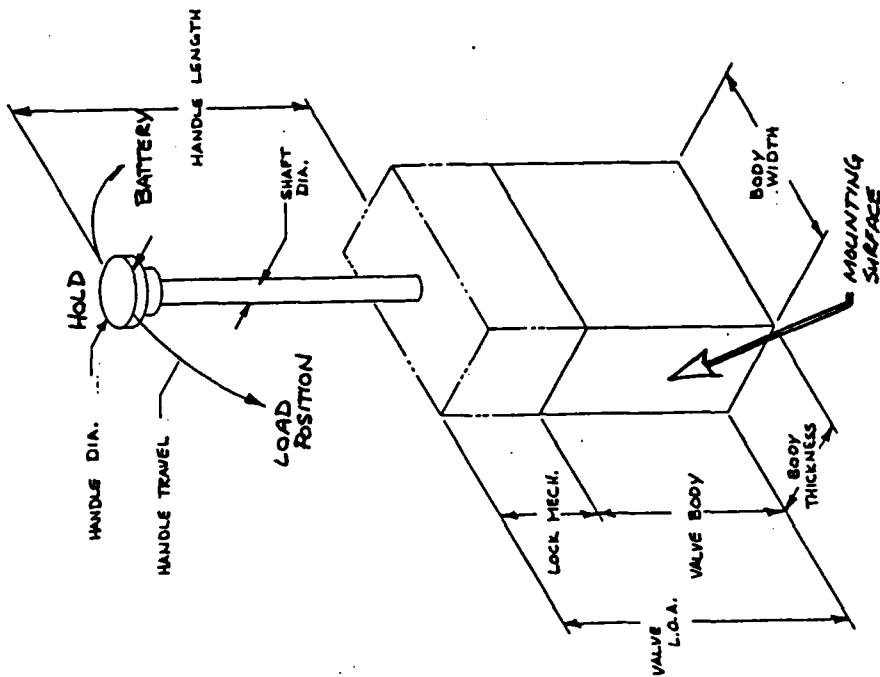
1. THE RAM CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. THE THREE PISTONS SHALL BE LABELED "RAM," "RETRACT," AND "CREEP."
 - B. AN INWARD - DISPLACEMENT ALONG THE SHAFT AXIS IN THE RETRACT POSITION SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL LEVER FROM RETRACT POSITION.
 - C. A FORCE ≥ 2 LBS \perp TO SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL LEVER FROM RETRACT POSITION.
 - D. CONTROL LEVER SHALL BE SPRING-LOADED TO THE RETRACT POSITION AND SHALL RETURN TO THE RETRACT POSITION WHEN RELEASED FROM THE RAM POSITION.
 - E. CONTROL LEVER SHALL BE SPRING-LOADED OUTWARD AT BOTH THE RETRACT AND CREEP POSITIONS TO RETURN THE CONTROL LEVER TO THE MAX OUTWARD POSITION WHEN RELEASED FROM AN INWARD DISPLACED POSITION.
 - F. CONTROL LEVER SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE RETRACT POSITION.
 - G. MOVEMENT OF THE CONTROL TO THE RAM POSITION SHALL BE HORIZONTAL AND TOWARDS THE REAR OF THE BARREL.

12585900	CAMMEER'S VALVE BLOCK
12585911	GENERAL CONTROL VALVE REQS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		VALVE, RAMMEER CONTROL	
SIZE B 19200	FSCM NO. T-12585900	UNIT WT.	SHEET 2 OF 2
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		DRAFTSMAN S. ACKO ENGR ENGR	
THIRD ANGLE PROJECTION		CHECKER ENGR ENGR	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	
YP	TS	ENGR	
EL2	RA	ENGR	
BH	RH	ENGR	
NEXT ASSY		USED ON	
APPLICATION			

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN 991 99657
Vendor Part No.: 1



VALVE NO. 65900-003

CANNON POSITION / LOAD CONTROL
(CANNONEER 1 MANIFOLD)

WORKING PRESSURE 3000 PSI
MAX. (PROOF) PRESSURE 4500 PSI
MAX FLOW RATE 5.0 GPM
PRES. DROP & MAX FLOW 50 PSI
CRACKING PRESSURE --- PSI
ACTUATION TIME --- SEC.

VALVE TYPE 4 WAY / 3 POS.
WEIGHT (REF) 3 lbs.

HANDLE LENGTH (beyond valve body) 5.93 in.

VALVE POSITIONS TO BE ENGRAVED ON THE TOP OF THE KNOB.

NOTE: THIS VALVE IS PART OF THE "CANNONEER ONE" MANIFOLD AND WILL BE SUPPLIED AS PART OF THAT ASSY.

HANDLE TO SPRING RETURN TO AND LOCK IN "HOLD" POSITION.

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN No.: 99656

Vendor part no.: 813120

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
-----	-------------	------	----------

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
VALVE, CANNON POSITION / LOADING CONTROL.	
SIZE B 19200	FSCM NO. T-12585700-003 / C
SCALE	UNIT WT.
SHEET 1 OF 2	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING
	DRAFTSMAN C. D. ACIO
	CHECKER ENGR
	ENGR
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	ENGR
	ENGR
	ENGR
	ENGR
THIRD ANGLE PROJECTION	ENGR
	ENGR
	ENGR
	ENGR
MECHANICAL PROPERTIES	YP
	TS
	EL2
	RA
APPLICATION	BH
	RH
	USED ON
	NEXT ASSY

DRAWING SIZE B

1. THE CANNON POSITION LOADING CONTROL SHALL MEET THE FOLLOWING REQ'TS:
 - A. THE THREE POSITIONS SHALL BE LABELLED "BATTERY", "HOLD", AND "LOAD", WITH THE HOLD POSITION MIDWAY BETWEEN BATTERY AND LOAD POSITIONS.
 - B. AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL LEVER FROM THE HOLD POSITION.
 - C. A FORCE ≥ 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL LEVER FROM THE HOLD POSITION.
 - D. CONTROL LEVER SHALL BE SPRING LOADED TO THE HOLD POSITION AND IN THE HOLD POSITION, THE CONTROL LEVER SHALL BE SPRING LOADED OUTWARD TO RETURN THE CONTROL TO THE MAX OUTWARD POSITION WHEN RELEASED FROM AN INWARD - DISPLACED POSITION.
 - E. CONTROL LEVER SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE "HOLD" POSITION.
 - F. DIRECTIONS OF MOVEMENT: THE CONTROL LEVER: TOWARD REAR OF BARREL - BARREL MOVES TOWARD BATTERY POSITION. TOWARD FRONT OF BARREL - BARREL MOVES TOWARD LOAD POSITION.

SYM	REVISIONS	
	DESCRIPTION	DATE

125B5900	CANNON LEVER VALVE BLADE
125B5911	GENERAL CONTROL VALVE BODY
125B5710-460	HYDRAULIC FUNCTIONAL
125B5711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

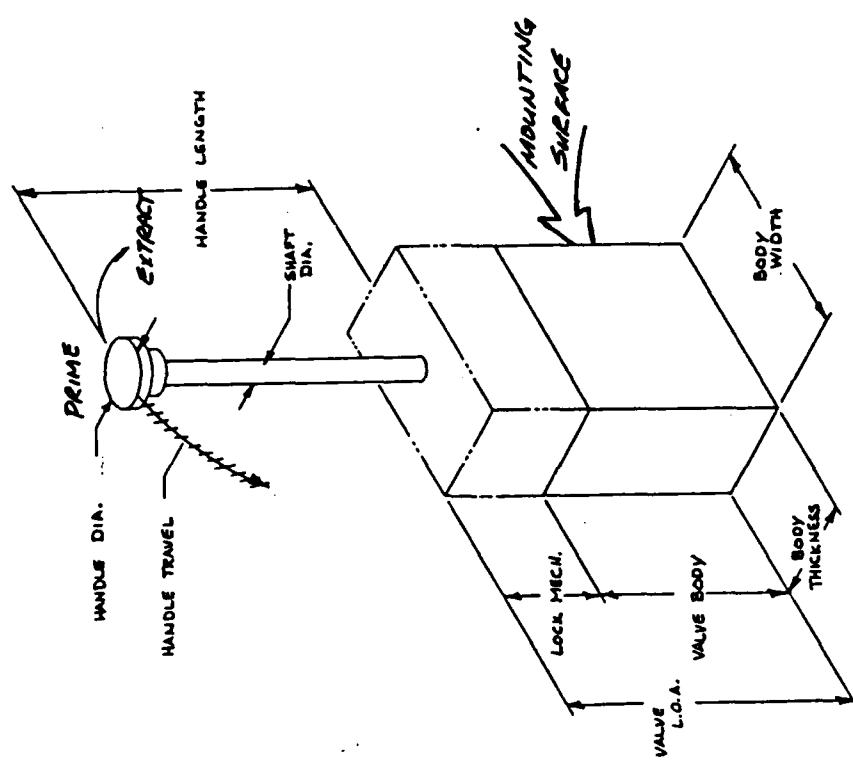
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
VALUE, CANNON POSITION / LOADING CONTROL		VALUE, CANNON POSITION / LOADING CONTROL	
SIZE	FORM NO.	SCALE	UNIT WT.
B	19200	T-12, 8, 100	0.3 / 8
SHEET 2 OF 2		SHEET 2 OF 2	

MECHANICAL PROPERTIES	DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN		
	TOLERANCES ON DECIMALS & ANGLES &		CHECKER		
	THIRD ANGLE PROJECTION		ENGR		
YP	TOLERANCES ON DECIMALS & ANGLES &		ENGR		
TS	THIRD ANGLE PROJECTION		ENGR		
EL2	THIRD ANGLE PROJECTION		ENGR		
RA	THIRD ANGLE PROJECTION		ENGR		
BH	THIRD ANGLE PROJECTION		ENGR		
RH	THIRD ANGLE PROJECTION		ENGR		
NEXT ASSY		USED ON		APPLICATION	

REVISIONS		
SYM	DESCRIPTION	DATE

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No. 99456
 Vendor Part No. 1



VALVE NO. 05900-004
 AUTO PRIMER CONTROL
 (CANNONEER 1 MANIFOLD)

WORKING PRESSURE 3000 PSI
 RAT. (PROOF) PRESSURE 4500 PSI
 RAT FLOW RATE 5.0 GPM
 PRES. DROP @ RAT FLOW 50 PSI
 CRACKING PRESSURE ---- PSI
 ACTUATION TIME ---- SEC.

VALVE TYPE 3 WAY / 2 POS.
 WEIGHT (REF) 3 lbs.

HANDLE LENGTH (beyond valve body) 3.93 in.

VALVE POSITIONS TO BE ENGRAVED ON THE TOP OF THE KNOB.

NOTE: THIS VALVE IS PART OF THE "CANNONEER ONE" MANIFOLD AND WILL BE SUPPLIED AS PART OF THAT ASSY.

HANDLE TO SPRING RETURN TO AND LOCK IN THE PRIME POSITION

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No. 99456

Vendor part no. 1

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
VALVE, AUTO PRIMER CONTROL	
SIZE B 19200	FSCM NO. T-12505900-004/c
SCALE	UNIT WT.
SHEET 1 of 2	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING
	CHECKER
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	DRAFTSMAN
	ENGR
THIRD ANGLE PROJECTION	ENGR
	ENGR

MECHANICAL PROPERTIES	YP
	TS
APPLICATION	EL2
	RA
NEXT ASSY	BH
	RH
USED ON	

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE

1. THE PRIMER CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A THE TWO POSITIONS SHALL LABELLED "PRIME" AND EXTRACT.
 - B AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL LEVER FROM THE "PRIME" POSITION.
 - C A FORCE \approx 2 LBS \perp TO THE SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL LEVER FROM PRIME POSITION.
 - D CONTROL LEVER SHALL BE SPRING-LOADED TO THE PRIME POSITION AND SHALL BE SPRING-LOADED OUTWARD AT THE PRIME POSITION TO RETURN THE CONTROL TO THE IN-OUTWARD POSITION WHEN RELEASED FROM AN INWARD DISPLACED POSITION.
 - E CONTROL LEVER SHALL BE MOUNTED SUCH THAT THE SHAFT IS HORIZONTAL AND \perp TO THE BARREL WHEN IN THE PRIME POSITION.
 - F MOVEMENT OF THE CONTROL TO THE EXTRACT POSITION SHALL BE HORIZONTAL AND TOWARDS THE REAR OF THE BARREL.

12585900	CANNONER'S VALVE BLAKE
12585911	GENERAL CENTER VALVE ADJUST
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQTS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
VALVE, AUTO PRIMER CONTROL		CHECKER	
SIZE B FSCM NO. 19200		DRAFTSMAN S BACKO	
SCALE N/A UNIT WT.		ENGR	
T-12585400 0007 /G		ENGR	
SHEET 2 OF 2		THIRD ANGLE PROJECTION	
APPLICATION		DO NOT SCALE DRAWING	
NEXT ASSY USED ON		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
MECHANICAL PROPERTIES		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
YP	TS	THIRD ANGLE PROJECTION	
EL2	RA	THIRD ANGLE PROJECTION	
SH	RH	THIRD ANGLE PROJECTION	
APPLICATION		THIRD ANGLE PROJECTION	

I. PRIOR TO DISPLACING THE CONTROL FROM THE SAFETY POSITION, AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED. THE CONTROL SHALL SPRING-LOADED OUTWARD IN SAFETY POSITION TO RETURN THE CONTROL TO MAX OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.

PART NO.

12585900	CANNONBALL & VALVE BLOCK
12585911	GENERAL CONTROL VALVE ADAPTS
12585710 - 460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

REQUIREMENTS :

THE ABOVE CASE DISPLAY SHALL INCLUDE A RANGE OF

0 To 6000 PSI

B. THE PRESSURE RANGE OF 3000 TO TBD PSI SHALL BE COLORED BRIGHT GREEN ON THE DIAL FACE, WITH ALL OTHER REGIONS COLORED BRIGHT RED.

c. THE WORDS "TOO LOW" SHALL BE WRITTEN IN THE REGION < 3000 PSI AND "TOO HIGH" SHALL BE WRITTEN IN THE REGION > 5100 PSI.

D THE DIAMETER OF THE GAGE FACE SHALL BE $3.0 \text{ INCHES} \pm 0.5 \text{ INCHES}$.

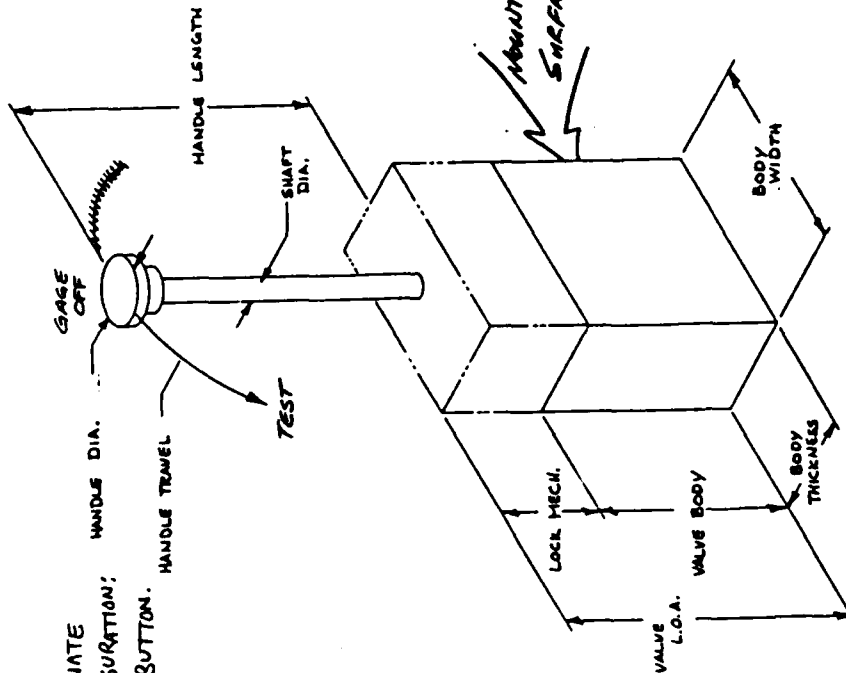
THE GAGE SHALL BE GLYCERIN-FILLED, SILICONE-FILLED OR DRY AND SILK-RESISTANT THE GAGE SHALL BE SNUBBED.

OF REQUIREMENTS A-C CAN BE IGNORED FOR DEMONSTRATOR AND A C - 8000 PSI GAGE SUBSTITUTED.

12585900	CANNONBALL 3 VALVE BLACK
12585911	GENERAL CONTROL VALVE REAOTS
12585710 - 460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REAOTS
REF. DWG.	DESCRIPTION

PART NO.

[illegible][illegible]



VALVE NO. 45900-007
ACCUMULATOR PRESSURE TEST VALVE
(CANNOWER 1 MANIFOLD)

WORKING PRESSURE	3000 PSI
MAI. (PROOF) PRESSURE	4200 PSI
MAI FLOW RATE	3 GPM
PRES. DROP @ MAI FLOW	50 PSI
CRACKING PRESSURE	---- PSI
ACTUATION TIME	---- SEC.
VALVE TYPE	3 WAY / 2
WEIGHT (REF)	3 lbs.

HANDLE LENGTH (beyond valve body) 5.93 in.
 VALVE POSITIONS TO BE ENGRAVED ON THE TOP OF THE KNOB.
 NOTE: THIS VALVE IS PART OF THE "CANNONEER ONE"
 MANIFOLD AND WILL BE SUPPLIED AS PART OF THAT ASSY.
 SPRING RETURNED TO AND LOCKED IN SAFE OFF POSITION.

Suggested Source of Supply:
Marotta Scientific Controls, Inc.
Beaumont Ave.
Beaumont, NJ 07005
FSCN No.: 99434

Vendor Part No.1

[illegible]

BSMCMR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED


DRAWING SIZE B

1. IDENTICAL TO 12585894 - 002

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

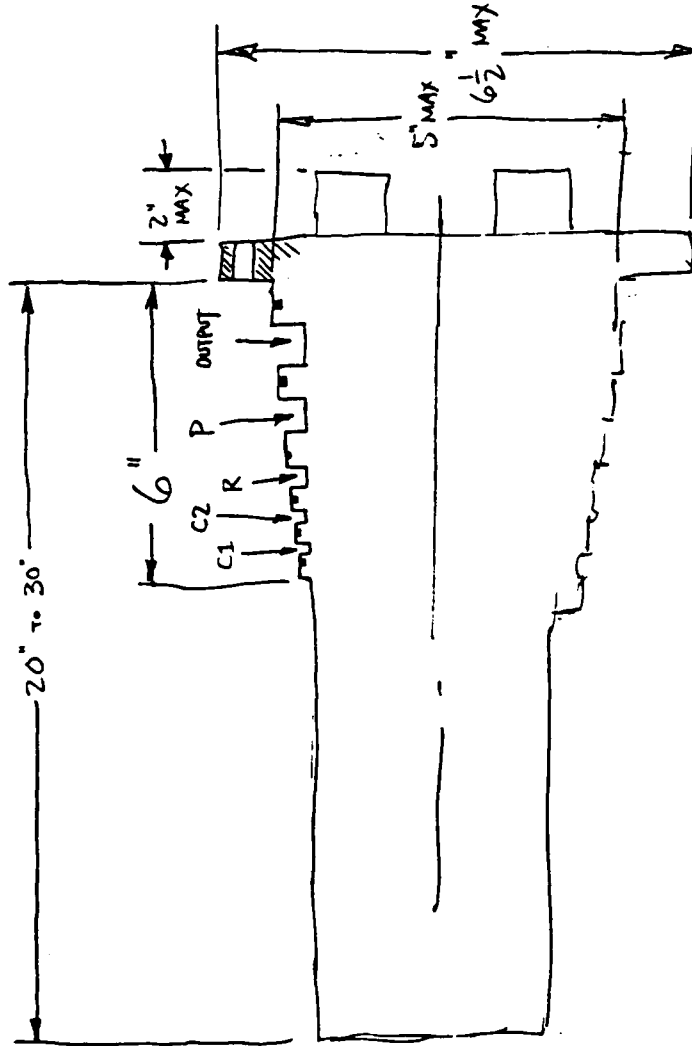
12585900	CANNONELLA VALVE BLOCK
12585911	GENERAL CONTROL VALVE REQTS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQTS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
		DRAFTSMAN ENGR CHECKER ENGR	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES YP TS EL2 RA BM RH			
NEXT ASSY USED ON		APPLICATION	
SIZE B 19200		FSCM NO. T-12585900-007/C	
SCALE UNIT WT.		SHEET 2 of 2	

A hand-drawn diagram of a bolt head. The bolt head is circular with a hexagonal pattern of six raised lobes. Two points on the top surface of the bolt head are marked with small dots. A line from the text 'INITIAL VELOCITY ADJUSTMENT' points to the left dot, and a line from the text 'FINAL VELOCITY ADJUSTMENT' points to the right dot. The bolt shank is shown as a series of horizontal lines below the head.

12505911	GENERAL CONTROL VALVE ADJUSTS	
12505710 - 460	HYDRAULIC FUNCTIONAL	
12505711	ENVIRONMENTAL RESULTS	
REF. DWG.	DESCRIPTION	

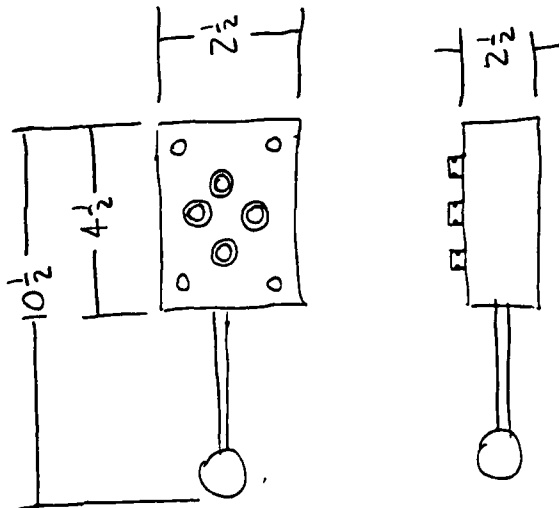


Suggested Source of Supply:
Marotta Scientific Controls, Inc.
Benton Ave
Benton, NJ 07005
FSCN NO: 99437
Vendor Part No.:

PART NO.

[illegible]

DRAWING SIZE 8



Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN NO: 99437
Vendor Part No. 1

VALVE NO. #5904
CANNON LAY CONTROL
(Joyetick)

WORKING PRESSURE 3000 PSI
MAX. (PROOF) PRESSURE 4500 PSI
MAX FLOW RATE 5.0 GPM
PRES. DROP @ MAX FLOW 100 PSI
CRACKING PRESSURE --- PSI
ACTUATION TIME --- SEC.

VALVE TYPE
WEIGHT 2.00 lbs.

VALVE LENGTH (ALONG HANDLE AXIS) 10.375 in.
BODY DIMENSIONS 2.25 in.
DEPTH 2.25 in.
MOUNTING SURFACE HEIGHT (PARALLEL TO HANDLE) 2.25 in.
WIDTH 2.46 in.

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN No. 1 99436

Vendor part no. 1 S13110

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
YP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN	CHECKER
TS		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		S DACKO	
EL2		THIRD ANGLE PROJECTION		ENGR	ENGR
RA		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		ENGR	ENGR
BH		THIRD ANGLE PROJECTION		ENGR	ENGR
RH		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		ENGR	ENGR
NEXT ASSY		USED ON		THIRD ANGLE PROJECTION	
APPLICATION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION	

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

CANNON LAY CONTROL - GUNNER

SIZE FSCN NO.
B 19200 T-12585904/D
SCALE UNIT WT.
SHEET 1 OF 4

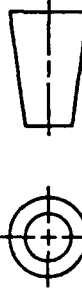
DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE

1. ARC OF CONTROL SWING: LESS THAN 90°
2. STROKE OF CONTROL: LESS THAN OR EQUAL TO 18 INCHES OVERALL.
- 3A. AN INWARD DISPLACEMENT ALONG THE CONTROL AXIS IN THE HOLD POSITION SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL FROM THE HOLD POSITION.
- 3B. A FORCE OF GREATER THAN 2 LBS PERPENDICULAR TO THE CONTROL SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FROM THE HOLD POSITION.
4. CONTROL HANDLE DIAMETER: 2.0 INCHES ± 0.5 INCHES.
5. CONTROL HANDLE LENGTH: GREATER THAN OR EQUAL TO 5.25 INCHES.
6. OUTER MATERIAL OF CONTROL HANDLE SHALL BE NON-METAL.
7. REF: CLEARANCE BETWEEN CONTROL HANDLE CENTER AND OTHER COMPONENTS AT MAXIMUM CONTROL SWING GREATER THAN OR EQUAL TO 5.1 INCHES.
8. CONTROL SHALL BE SPRING-LOADED TO THE HOLD POSITION AND RETURN TO THE HOLD POSITION WHEN THE CONTROL IS RELEASED FROM A NON-HOLD POSITION.
9. CONTROL NEUTRAL ZONE CHARACTERISTICS AND RESPONSE CHARACTERISTICS SHALL BE APPROXIMATED BY FIGURE 7-6 ON 12585904, SHEET 2.

12585911	GENERAL CONTROL VALVE ASSETS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		CANNON LAY CONTROL - GUNNER	
SIZE	FSCM NO.	SCALE	UNIT WT.
B	19200	1"=1'	2.05 9
ORIGINAL DATE OF DRAWING		DRAWING	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN S. DIXON	
TOLERANCES ON DECIMALS * FRACTIONS * THIRD ANGLE PROJECTION		CHECKER ENGR	
		ENGR	
MECHANICAL PROPERTIES		ENGR	
YP	TS	ENGR	
EL2	RA	ENGR	
SH	RH	ENGR	
NEXT ASSY		USED ON	
APPLICATION			

DRAWING SIZE B

MIL-HDBK-759A
30 June 1981

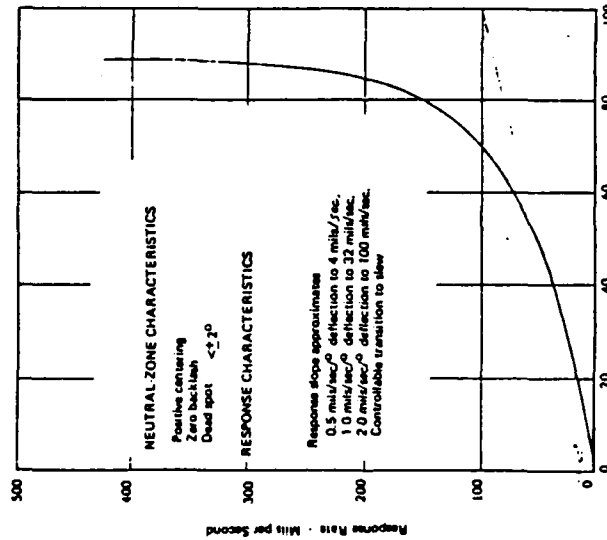


Figure 7-4. Optimum Power-Traverse Response Rates
for Tact.

7-43

REVISIONS		
SYM	DESCRIPTION	DATE

10. MIN. TRAVERSE AND ELEVATION RATES TO BE LESS THAN OR EQUAL TO 0.5 MILS / SECOND.
11. MAX. ELEVATION RATE TO BE GREATER THAN OR EQUAL TO 507 MILS / SEC.
12. MAX. TRAVERSE RATE TO BE GREATER THAN OR EQUAL TO 36 MILS / SEC.
13. CONTROL SHALL BE MOUNTED SUCH THAT THE AXIS IS HORIZONTAL WHEN IN THE NEUTRAL POSITION.
14. DIRECTIONS OF MOVEMENT: MOVE CONTROL TO THE:
LEFT - BARREL SHALL TRAVERSE LEFT
RIGHT - BARREL SHALL TRAVERSE RIGHT
DOWN - BARREL SHALL DEPRESS
UP - BARREL SHALL ELEVATE
CONTROL MOVEMENT IN DIRECTIONS BETWEEN THE ABOVE DIRECTIONS SHALL PROVIDE A PROPORTIONAL AMOUNT OF BARREL ELEVATION AND TRAVERSE.

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
CANNON LAY CONTROL - GUNNER		DRAFTSMAN S. DACCIO	CHECKER ENGR
SIZE B 19200		ENGR	ENGR
SCALE N/A UNIT WT.		THIRD ANGLE PROJECTION	
FSCM NO. 7-1258-104 / D			
SHEET 3 of 4			


MECHANICAL PROPERTIES		DO NOT SCALE DRAWING	
YP	TS	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
EL2	RA	TOLERANCES ON DECIMALS & ANGLES &	
BH	RH	FRACTIONS &	
NEXT ASSY		USED ON	
APPLICATION		THIRD ANGLE PROJECTION	

DRAWING SIZE 8

15. CONTROL SHALL BE SPRING LOADED OUTWARD IN THE HOLD POSITION
TO RETURN THE CONTROL TO THE MAX. OUTWARD POSITION
WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN S. BACKO		CHECKER ENGR	
YP		TOLERANCES ON DECIMALS *		ENGR		CANNON LAY CONTROL - GUNNER	
TS		FRACTIONS *		ENGR			
EL2		ANGLES *		ENGR			
RA		THIRD ANGLE PROJECTION					
BH							
RH							
NEXT ASSY		USED ON				SIZE B 19200	
APPLICATION						FSCM NO. T-12585904 / D	
				SCALE N/A		UNIT WT.	
						SHEET 4 of 4	

DRAWING SIZE B

1. IDENTICAL TO 12585904

Suggested Source of Supply:
Borella Scientific Controls, Inc.
Boscon Ave
Boscon, NJ 07005
FSCN NO: 91637
Vendor Part No.:

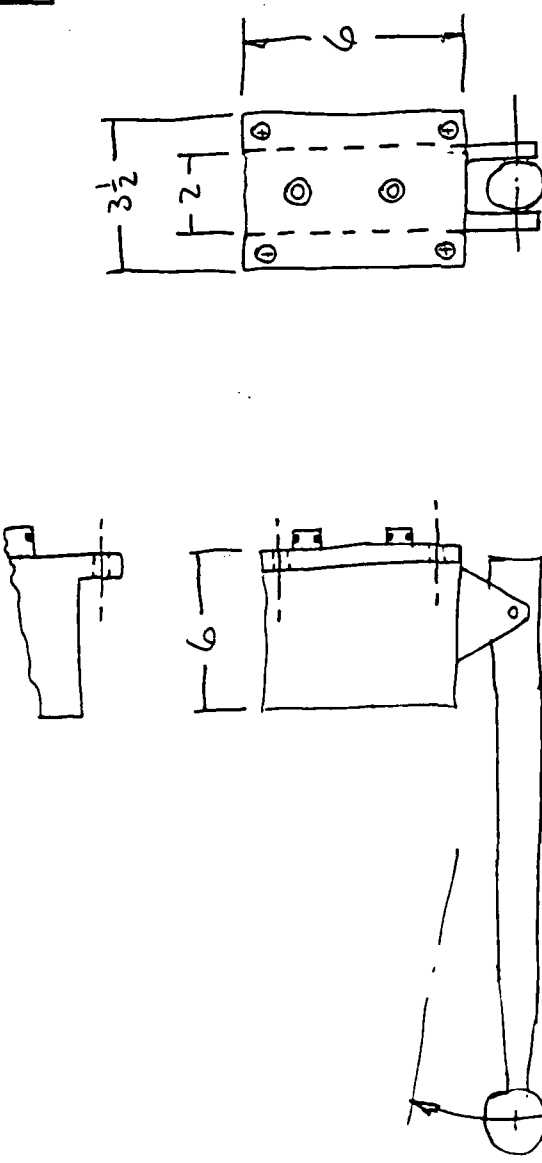
REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN S. LACKO		CHECKER	
TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION		TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION		ENGR		ENGR	
THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		ENGR		ENGR	
NEXT ASSY		USED ON		ENGR		ENGR	
APPLICATION		APPLICATION		ENGR		ENGR	
SCALE		N/A		UNIT WT.		SHEET 1 OF 1	
SIZE		B 19200		FSCN NO.		T-12585905/D	
CANNON LAY CONTROL - ASSISTANT GUNNER							

DRAWING SIZE B

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION		
	VALVE NO. 5906-003		
	ON / OFF VALVE		
<p>WORKING PRESSURE 6000 PSI</p> <p>MAX. (PROOF) PRESSURE 9000 PSI</p> <p>MAX FLOW RATE 5.0 GPM</p> <p>PRES. DROP @ MAX FLOW 500 PSI</p> <p>CRACKING PRESSURE ---- PSI</p> <p>ACTUATION TIME ---- SEC.</p> <p>VALVE TYPE 2 POS / 3 WAY</p> <p>WEIGHT 2.0 lbs.</p> <p>VALVE LENGTH (ALONG HANDLE AXIS) 10.375 in.</p> <p>BODY DIMENSIONS</p> <p>DEPTH 2.25 in.</p> <p>MOUNTING SURFACE: HEIGHT (PARALLEL TO HANDLE) 2.41 in. \</p> <p>WIDTH 1.87 in.</p> <p>VALVE TO SPRING RETURN TO OFF POSITION AND TO LOCK IN BOTH OFF AND ON POSITIONS.</p> <p>Suggested Source of Supply:</p> <p>Harotta Scientific Controls, Inc.</p> <p>Boonton Ave.</p> <p>Boonton, NJ 07003</p> <p>FSCN No. 1 99656</p> <p>Vendor part no. 1</p>			



Suggested Source of Supply:

Harotta Scientific Controls, Inc.


Boonton Ave.

Boonton, NJ 07003

FSCN No. 1 99657

Vendor Part No. 1

PART NO.

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN	CHECKER
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		ENGR	ENGR
THIRD ANGLE PROJECTION		ENGR	ENGR
			
MECHANICAL PROPERTIES			
YP			
TS			
EL2			
RA			
BH			
RH			
NEXT ASSY	USED ON		
APPLICATION			
<p>U.S. ARMY</p> <p>ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER</p> <p>DOVER, NEW JERSEY 07801-8001</p> <p>HANDPUMP - GUNNER</p>			
<p>SIZE B</p> <p>FSCM NO. 19200</p> <p>T-12585906 / D</p>			
SCALE		UNIT WT.	SHEET 1 OF 2

DRAWING SIZE 8

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

1. ARC OF PUMP SHAFT SWING: LESS THAN 90°
2. STROKE OF PUMP HANDLE: ≤ 20 INCHES, PREFERABLY 8-12 INCHES OVERALL.
3. MAX. FORCE EXERTED AT PUMP HANDLE: ≤ 5 LBS PERPENDICULAR TO SHAFT, BOTH DIRECTIONS, AT 4800 PSI.
4. PUMP HANDLE DIA 1/2 INCH ± 0.05 INCHES.
5. PUMP HANDLE LENGTH AND ORIENTATION: LENGTH ≥ 11 INCHES, 1 TO SHAFT (T-OR L-CONFIGURATION).
6. CENTER OF GRAVITY OF PUMP HANDLE SHALL BE NON-FUNCTIONAL.
7. PUMP SHAFT SHALL BE MOUNTED SUCH THAT SHAFT IS BELOW THE HORIZONTAL IN THE NEUTRAL POSITION.
8. REF: PUMP HANDLE 10 BE 35 IN OFF GROUND IN NEUTRAL POSITION.
9. REF: CLEARANCE BETWEEN PUMP HANDLE CENTER AND OTHER COMPONENTS AT MINIMUM PUMP SHAFT SWING: GREATER THAN OR EQUAL TO 5.1 INCHES.
10. DIRECTION OF PUMP SHAFT SWING: IN A VERTICAL PLANE PARALLEL TO THE PLANE OF BARREL ELEVATION.
11. MAXIMUM PUMP STROKE CYCLES (UP+DOWN) PER MINUTE ≤ 60 CYCLES/MIN.
12. MAXIMUM HUMAN POWER INPUT = 0.15 HP.
13. LENGTH OF PUMP SHAFT: ≥ 20 INCHES.

12585911	GENERAL CONTROL VALVE REQ'S
12585710-960	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'S
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07802-8001		HAND PUMP - 6.1 INCH	
SIZE	FSCM NO.	SCALE	UNIT WT.
B	19200	N/A	2.01 L
ORIGINAL DATE OF DRAWING		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
DRAFTSMAN J. JACKO		CHECKER	
ENGR		ENGR	
ENGR		ENGR	
TOLERANCES ON DECIMALS \pm		ANGLES \pm	
FRACTIONS \pm		THIRD ANGLE PROJECTION	
YP		RH	
TS		BH	
EL2		RH	
RA		RH	
BH		RH	
RH		RH	
NEXT ASSY		USED ON	
APPLICATION		SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.	

REVISIONS		
SYM	DESCRIPTION	DATE

IDENTICAL TO

Suggested Source of Supply:
Marotta Scientific Controls, Inc.
 Beacon Ave
 Boonton, NJ 07003
 FSC# NJ: 99657
 Vendor Part No.:

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07701-8001
U.S. ARMY

HANDPUMP - ASSISTANT
GUNNER

SIZE	FSCM NO.	
B	19200	T-1258:907/C

SCALE	N/A	UNIT WT.
-------	-----	----------

UNCLAS FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

INCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

* PUSH IN HANDLE TO MOVE

PART NO.

[illegible]

REVISIONS		
SYM	DESCRIPTION	DATE

A THE FOUR POSITIONS SHALL BE LABELLED "WHEEL UP", "WHEEL DOWN", "ON/HOLD", AND "OFF," WITH ON/HOLD BEING MIDWAY BETWEEN WHEEL UP AND WHEEL DOWN, AND OFF BEING ALONG A LINE EXTENDING FROM ON/HOLD THAT IS \perp TO THE WHEEL UP/WHEEL DOWN LINE.

B. AN INWARD DISPLACEMENT ALONG THE SHAFT AXIS SHALL BE REQUIRED PRIOR TO DISPLACING THE CONTROL FROM EITHER THE OFF OR ON/HOLD POSITIONS.

C. A FORCE ≥ 2 AND ≤ 10 LBS \perp TO SHAFT SHALL BE REQUIRED TO DISPLACE THE CONTROL FLAM EITHER THE OFF OR ON/HOLD POSITIONS.

D. CONTROL SHALL BE SPRING-LOADED TO THE ON/HOLD POSITION FROM THE WHEEL UP AND WHEEL DOWN POSITIONS ONLY.

E. IN BOTH THE OFF AND ON/HOLD POSITIONS THE CONTROL SHALL BE SPRING-LOADED OUTWARD TO RETURN THE CONTROL TO THE MAX OUTWARD POSITION WHEN RELEASED FROM AN INWARD-DISPLACED POSITION.

F. CONTROL SHALL BE MOUNTED SUCH THAT THE LINE BETWEEN WHEEL UP AND WHEEL DOWN IS // TO THE WHEEL ACTUATOR, THE SHAFT IS \perp TO THE BARREL WHEN IN THE ON/ALO POSITION, AND OFF IS IN THE DIRECTION OF THE LTMD WALKING BEAM PIVOT POINT.

PART NO.

[illegible]

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

1 ALL CONTROL VALVES SHALL MEET THE FOLLOWING REQUIREMENTS:
FOLLOWING REQUIREMENTS, UNLESS OTHERWISE NOTED:

- A. ARC OF CONTROL LEVER SWING ≤ 90 DEGREES.
- B. HANDLE TRAVEL (STROKE) ≤ 18 INCHES OVERALL
- C. HANDLE DIAMETER ≥ 2.0 INCHES ± 0.5 INCHES.
- D. HANDLE LENGTH ≥ 5.25 INCHES
- E. OUTER MATERIAL OF HANDLE SHALL BE NON-METAL.
- F. FREE CLEARANCE BETWEEN HANDLE CENTER AND OTHER COMPONENTS AT ALL CONTROL LEVER POSITIONS ≥ 5.25 INCHES.
- G. ALL REQUIREMENTS -- CONTROL LEVER ORIENTATION ASSUMES THE MOUNTING SURFACE (HANDLE) IS AT 90 DEGREES QUADRANT ELEVATION.

12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

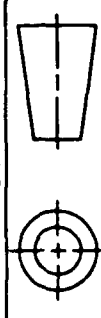
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
GENERAL CONTROL VALVE REQUIREMENTS	
SIZE B	FSCM NO. 19200
SCALE N/A	UNIT WT. T-12585711 / A
SHEET 1 of 1	

ORIGINAL DATE OF DRAWING	
DRAFTSMAN J. LACKO	CHECKER
ENGR	ENGR
ENGR	ENGR

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
THIRD ANGLE PROJECTION	

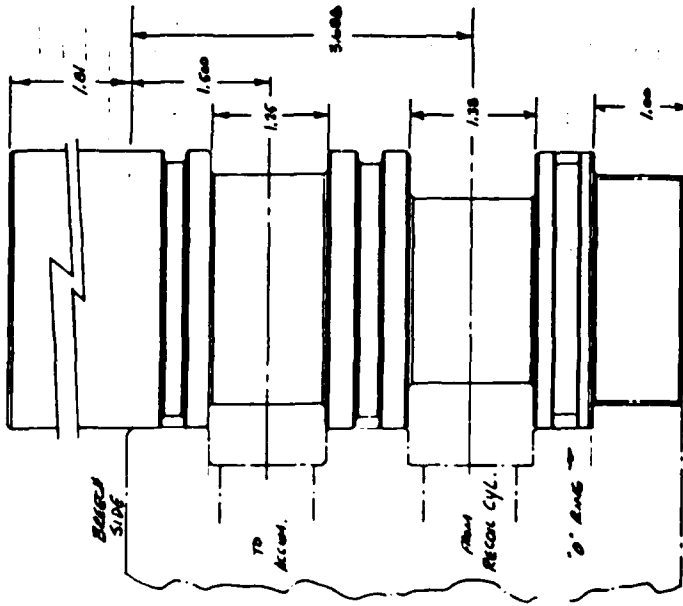
MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
BM	
RM	

NEXT ASSY	
USED ON	
APPLICATION	



DRAWING SIZE B

-002



-001

VALVE NO. 45912

ENERGY RECOVERY ACCUMULATOR CHECK

WORKING PRESSURE 6000 PSI
 MAX. (PROOF) PRESSURE 9000 PSI
 MAX FLOW RATE 450 GPM
 PRES. DROP @ MAX FLOW 300 PSI
 CRACKING PRESSURE 5 PSI
 ACTUATION TIME N/A SEC.

VALVE TYPE CHECK
 WEIGHT 9.9 lbs.
 VALVE SIZE 3.00 in.
 BODY DIA. 7.812 in.
 BODY LENGTH 2.00 in. max.
 BREECH SIDE PROTRUSION

MOUNTING METHOD
 THREADED BODY:
 2.50 - 12
 1.10 LONG

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Bounton Ave.
 Bounton, NJ 07005
 FSCN No.: 99656

Vendor part no.: 813123

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Bounton Ave.
 Bounton, NJ 07005
 FSCN No.: 99657
 Vendor Part No.:

1258 5911	GENERAL CRITICAL VALVE REQ'TS
1258 5710-460	HYDRAULIC FUNCTIONAL
1258 5711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

SYMBOL		DESCRIPTION		DATE		APPROVAL	
		VALVE NO. 45912					
		ENERGY RECOVERY ACCUMULATOR CHECK					
		WORKING PRESSURE 6000 PSI					
		MAX. (PROOF) PRESSURE 9000 PSI					
		MAX FLOW RATE 450 GPM					
		PRES. DROP @ MAX FLOW 300 PSI					
		CRACKING PRESSURE 5 PSI					
		ACTUATION TIME N/A SEC.					
		VALVE TYPE CHECK					
		WEIGHT 9.9 lbs.					
		VALVE SIZE 3.00 in.					
		BODY DIA. 7.812 in.					
		BODY LENGTH 2.00 in. max.					
		BREECH SIDE PROTRUSION					
		MOUNTING METHOD					
		THREADED BODY:					
		2.50 - 12					
		1.10 LONG					
		Suggested Source of Supply:					
		Harotta Scientific Controls, Inc.					
		Bounton Ave.					
		Bounton, NJ 07005					
		FSCN No.: 99656					
		Vendor part no.: 813123					
		Suggested Source of Supply:					
		Harotta Scientific Controls, Inc.					
		Bounton Ave.					
		Bounton, NJ 07005					
		FSCN No.: 99657					
		Vendor Part No.:					
		U.S. ARMY					
		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER					
		DOVER, NEW JERSEY 07801-8001					
		CHECK VALVE, 650 GPM					
		SIZE B 19200					
		FSCN NO. T-12585912 / B					
		SCALE					
		UNIT WT.					
		SHEET					

REVISIONS		
SYM	DESCRIPTION	DATE

VALVE NO. 45913

ENERGY RECOVERY ACCUMULATOR PRESSURE RELIEF

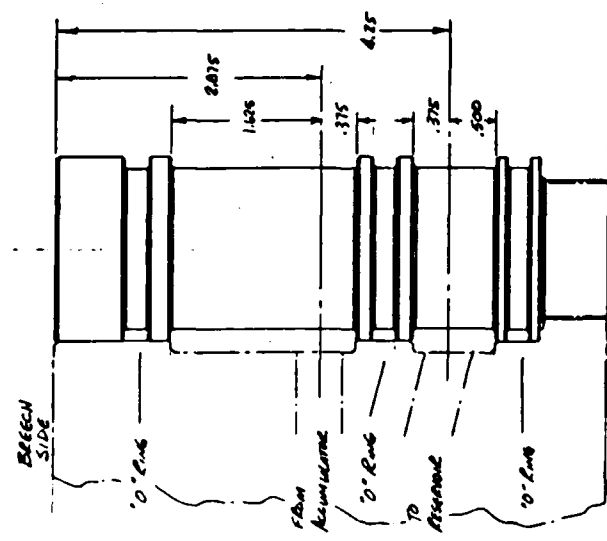
WORKING PRESSURE 4000 PSI
 MAX. (PROOF) PRESSURE 9000 PSI
 MAX FLOW RATE 10 GPM
 PRES. DROP @ MAX FLOW 150 PSI
 CRACKING PRESSURE 3800 PSI
 ACTUATION TIME ---- SEC.

VALVE TYPE RELIEF
 WEIGHT 1.5 lbs.
 VALVE SIZE 1.75 in.
 DIAMETER 7.5 in.
 LENGTH 1.5 in. max.
 BREECH SIDE PROTRUSION
 MOUNTING METHOD THREADED BODY
 - 1.375-12UN
 - 1.125 in.

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 PSCH No. 1 99656

Vendor part no. 1

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 PSCH No. 1 99657
 Vendor Part No. 1



125B5911	GENERAL CONTROL VALVE REQ'S
125B5710-460	HYDRAULIC FUNCTIONAL
125B5711	ENVIRONMENTAL REQ'S
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		PRESSURE RELIEF VALVE, ENERGY RECOVERY ACCUMULATOR	
SIZE	FACH NO.	SCALE	UNIT WT.
B 19200	T-125B5913/A		SHEET 1 OF 1
ORIGINAL DATE OF DRAWING		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
DRAFTSMAN D. W. HICKS	CHECKER	TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
ENGR	ENGR	THIRD ANGLE PROJECTION	
ENGR	ENGR		
MECHANICAL PROPERTIES		APPLICATION	
YP	TS	NEXT ASSY	
EL2	RA	USED ON	
BH	RH		

REVISONS		
SYM	DESCRIPTION	DATE
		APPROVAL

VALVE NO. 05914

PRESSURE REDUCING VALVE

WORKING PRESSURE 6000 PSI
 MAX. (PROOF) PRESSURE 7000 PSI
 MAX FLOW RATE 45 GPM
 PRES. DROP @ MAX FLOW 100 PSI
 CRACKING PRESSURE ---- PSI
 ACTUATION TIME ---- SEC.

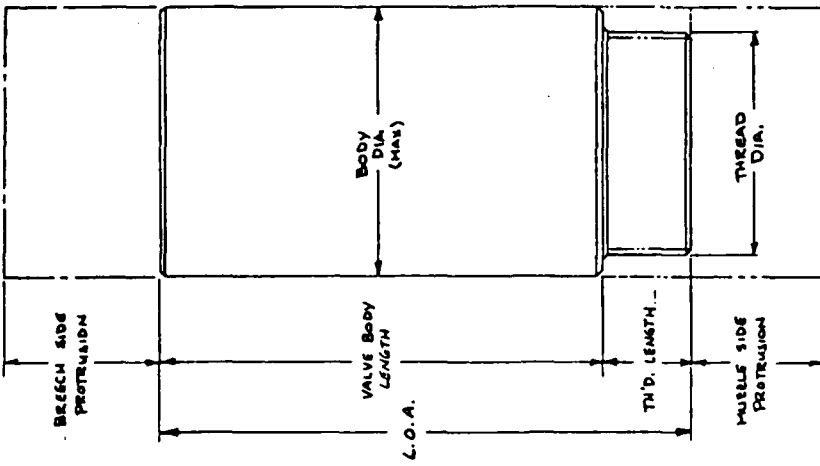
VALVE TYPE PRES. REDUCING
 WEIGHT 2 lbs.
 VALVE SIZE 2.75 in.
 DIAMETER 6.00 in.
 LENGTH 0.0 in. max.
 BREACH SIDE PROTRUSION 8.0 in. max.
 MUZZLE SIDE PROTRUSION

MOUNTING METHOD THREADED BODY
 -3.0 - 16 UN
 -0.30 in.

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No. 1 49636

Vendor part no. 1

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No. 1 49637
 Vendor Part No. 1



12585911	GENERAL CONTROL VALVE REQ'TS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQ'TS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
PRESSURE REDUCING VALVE	
SIZE B 19200	FSCM NO. T-12585914/A
SCALE	UNIT WT.
SHEET 1 OF 1	

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING	
	DRAFTSMAN S. J. WILKINSON	CHECKER
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	ENGR	ENGR
	ENGR	ENGR
THIRD ANGLE PROJECTION		
MECHANICAL PROPERTIES	APPLICATION	
	YP	USED ON
TS		
EL2		
RA		
BH		
RH		

DRAWING SIZE B

REVISIONS															
SYM	DESCRIPTION														
DATE	APPROVAL														
<p>VALVE NO. 43917</p> <p>CANNON AT BATTERY POSITION</p>															
<p>Suggested Source of Supply: Marotta Scientific Controls, Inc. Boonton Ave. Boonton, NJ 07005 FSCN NO: 99657 Vendor Part No. 1</p>															
<p>WORKING PRESSURE 3000 PSI MAX. (PROOF) PRESSURE 4500 PSI MAX FLOW RATE 5.0 GPM PRES. DROP & MAX FLOW 50 PSI CRACKING PRESSURE ---- PSI ACTUATION TIME ---- SEC.</p>															
<p>VALVE TYPE 2 way / 2 pos. WEIGHT 2.5 lbs. VALVE SIZE: SEE DNG. DIAMETER SEE DNG. LENGTH</p>															
<p>MOUNTING METHOD: FACE MOUNT ON MID SLIDE MANIFOLD; SEE DNG.</p>															
<p>Suggested Source of Supply: Marotta Scientific Controls, Inc. Boonton Ave. Boonton, NJ 07005 FSCN No. 1 99656</p>															
<p>Vendor part no. 1</p>															
<p>PICTURE Not yet AVAILABLE</p>															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">12585911</td> <td style="width: 80%;">GENERAL CONTROL VALVE REQ'T</td> </tr> <tr> <td>12585710-460</td> <td>HYDRAULIC FUNCTIONAL</td> </tr> <tr> <td>12585711</td> <td>ENVIRONMENTAL REQ'TS</td> </tr> <tr> <td>REF. DWG.</td> <td>DESCRIPTION</td> </tr> </table>		12585911	GENERAL CONTROL VALVE REQ'T	12585710-460	HYDRAULIC FUNCTIONAL	12585711	ENVIRONMENTAL REQ'TS	REF. DWG.	DESCRIPTION						
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12585710-460	HYDRAULIC FUNCTIONAL														
12585711	ENVIRONMENTAL REQ'TS														
REF. DWG.	DESCRIPTION														
<h2 style="margin: 0;">PART NO.</h2>															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"> <p>DO NOT SCALE DRAWING</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *</p> <p>THIRD ANGLE PROJECTION</p> </td> <td style="width: 40%;"> <p>ORIGINAL DATE OF DRAWING</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAFTSMAN J. WARDICK</td> <td style="width: 50%;">CHECKER</td> </tr> <tr> <td>ENGR</td> <td>ENGR</td> </tr> <tr> <td>ENGR</td> <td>ENGR</td> </tr> </table> </td> </tr> </table>		<p>DO NOT SCALE DRAWING</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *</p> <p>THIRD ANGLE PROJECTION</p>	<p>ORIGINAL DATE OF DRAWING</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAFTSMAN J. WARDICK</td> <td style="width: 50%;">CHECKER</td> </tr> <tr> <td>ENGR</td> <td>ENGR</td> </tr> <tr> <td>ENGR</td> <td>ENGR</td> </tr> </table>	DRAFTSMAN J. WARDICK	CHECKER	ENGR	ENGR	ENGR	ENGR						
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DRAFTSMAN J. WARDICK	CHECKER														
ENGR	ENGR														
ENGR	ENGR														
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YP															
TS															
EL2															
RA															
BM															
RM															
<p>VALVE, CANNON AT BATTERY POS.</p>															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">SIZE B</td> <td style="width: 40%;">FSCN NO. 19200</td> <td style="width: 40%;">UNIT WT. T-12585917/A</td> </tr> <tr> <td colspan="2">SCALE</td> <td>SHEET 1 OF 1</td> </tr> </table>		SIZE B	FSCN NO. 19200	UNIT WT. T-12585917/A	SCALE		SHEET 1 OF 1								
SIZE B	FSCN NO. 19200	UNIT WT. T-12585917/A													
SCALE		SHEET 1 OF 1													

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

VALVE NO. 5910

CANNON AT LOAD POSITION

WORKING PRESSURE
MAX. (PROOF) PRESSURE
MAX FLOW RATE
PRES. DROP @ MAX FLOW
CRACKING PRESSURE
ACTUATION TIME

3000 PSI
4500 PSI
5.0 GPM
50 PSI
---- PSI
---- SEC.

VALVE TYPE
WEIGHT

2 way / 2 pos.
2.5 lbs.

MOUNTING METHOD:
FACE MOUNT ON MID SLIDE MANIFOLD; SEE DWG.

Suggested Source of Supply:
Haretta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No.: 99656

Suggested Source of Supply:
Haretta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No.: 99657
Vendor Part No.:

Picture
Not Yet
Available

12585911	GENERAL CONTROL VALVE REQTS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQTS
REF. DWG.	DESCRIPTION

PART NO.

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHECKER	
TOLERANCES ON DECIMALS *		ENGR	
FRACTIONS * ANGLES *		ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		DRAFTSMAN	
YP		B. W. Hawick	
TS		ENGR	
EL2		ENGR	
RA		ENGR	
BH		ENGR	
RH		ENGR	
NEXT ASSY		USED ON	
APPLICATION		U.S. ARMY	
		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
		DOVER, NEW JERSEY 07801-8001	
		VALVE, CANNON AT LOAD POSITION	
		SIZE FSCM NO.	
		B 19200 T-12585910/A	
		SCALE UNIT WT.	
		SHEET 1 OF 1	

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
APPROVAL		

VALVE NO. 5919

ELEVATION CONTROL VALVE

WORKING PRESSURE 3000 PSI
 MAX. (PROOF) PRESSURE 4500 PSI
 MAX FLOW RATE 20 GPM
 PRES. DROP @ MAX FLOW 2000 PSI
 CRACKING PRESSURE ---- PSI
 ACTUATION TIME ---- SEC.

VALVE TYPE

PILOT OPERATED
 FLOW CONTROL
 lbs.

WEIGHT
 VALVE PACKAGING:

PILOT OPERATED BY VALVE NO. 5904

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No.: 99656

Vendor part no.:

Suggested Source of Supply:
 Harotta Scientific Controls, Inc.
 Boonton Ave.
 Boonton, NJ 07005
 FSCN No.: 99657
 Vendor Part No.:

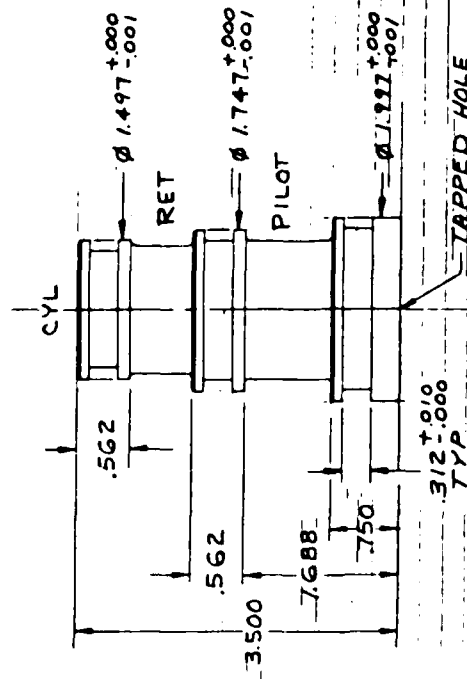
Picture
 Not yet
 Available

12585911	GENERAL CONTROL VALVE REQTS
12585710-460	HYDRAULIC FUNCTIONAL
12585711	ENVIRONMENTAL REQTS
REF. DWG.	DESCRIPTION

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN b. W/ADU/CT		CHECKER	
TOLERANCES ON DECIMALS *		FRACTIONS *		ANGLES *		ENGR	
THIRD ANGLE PROJECTION		ENGR		ENGR		ENGR	
NEXT ASSY		USED ON		APPLICATION		SIZE B	
APPLICATION		SCALE		FSCN NO. 19200		UNIT WT.	
ELEVATION CONTROL VALVE		T-12585919/A		SHEET 1 OF 1			

[illegible]



Total: 1010

VALVE NO. 05922
PILOTED FLOW FUSE
(4 REQ'D)

WORKING PRESSURE	3000 PSI
MAX. (PROOF) PRESSURE	4500 PSI
MAX FLOW RATE	30 GPM
PRES. DROP @ MAX FLOW	100 PSI
CRACKING PRESSURE	--- PSI
ACTION TIME	--- SEC.

VALVE TYPE	FLOW FUSE
WEIGHT	2 lbs.
VALVE SIZE:	
DIAMETER (STEPPED)	2.0/1.75/1.5 in.
LENGTH	6.0 in.

COUNTING METHOD

Suggested Source of Supply:
Marotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07003
FSCN No. 199A5A

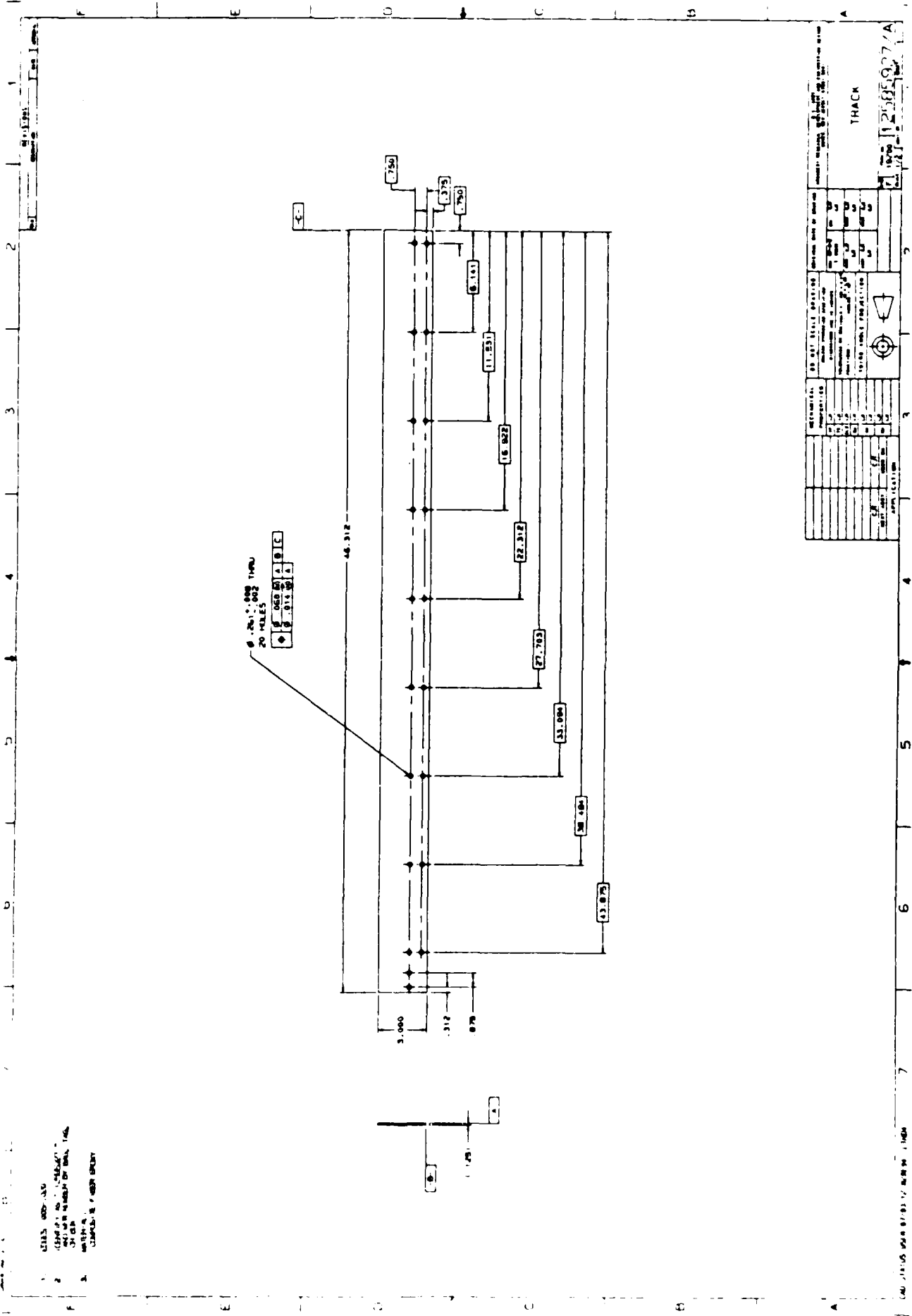
Vendor part no. 1

12505911	GENERAL CONTROL VALUE ROOT	
12505710 - 460	HYDRAULIC FUNCTIONAL	
12505711	ENVIRONMENTAL RESULTS	
REF. DWG.	DESCRIPTION	

PART NO.

[illegible]





1. 2113. 000-140
 2. 2113. 000-140
 3. 2113. 000-140
 4. 2113. 000-140
 5. 2113. 000-140

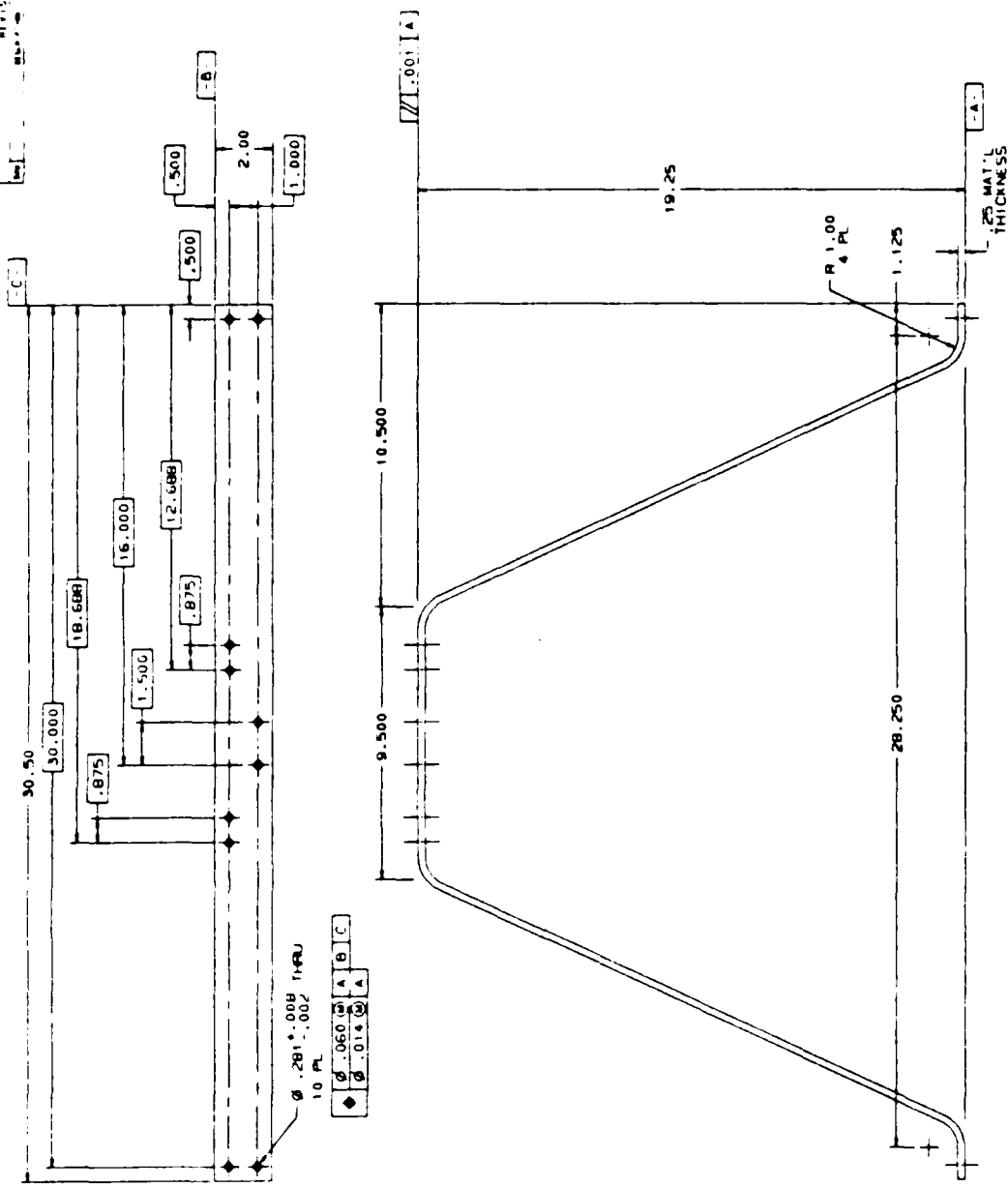
TITLE		THACK	
DATE		12/25/85	
DRAWN BY		J. A.	
CHECKED BY		J. A.	
APPROVED BY		J. A.	
REVISIONS		1. 12/25/85	
DIMENSIONS		1. 12/25/85	
MATERIALS		1. 12/25/85	
NOTES		1. 12/25/85	
SCALE		1. 12/25/85	
SHEET NO.		1. 12/25/85	
TOTAL SHEETS		1. 12/25/85	

CASELUM FIBRA EPOXY



PART NO.		REVISION		DATE		BY		CHECKED		APPROVED	
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31		31		31		31		31		31	
32		32		32		32		32		32	
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51		51		51		51		51		51	
52		52		52		52		52		52	
53		53		53		53		53		53	
54		54		54		54		54		54	
55		55		55		55		55		55	
56		56		56		56					

1. EARTH GUTTERS
2. PLYWOOD 3/4" G20
3. ALL TWO PLATE INTERNAL DIMENSIONS & .06
4. IDENTIFY AS "COMPONENT"
AND WITH NUMBER BY BAR, TAG,
OR BOX
5. MATERIALS:
CARBON FIBER EPOXY

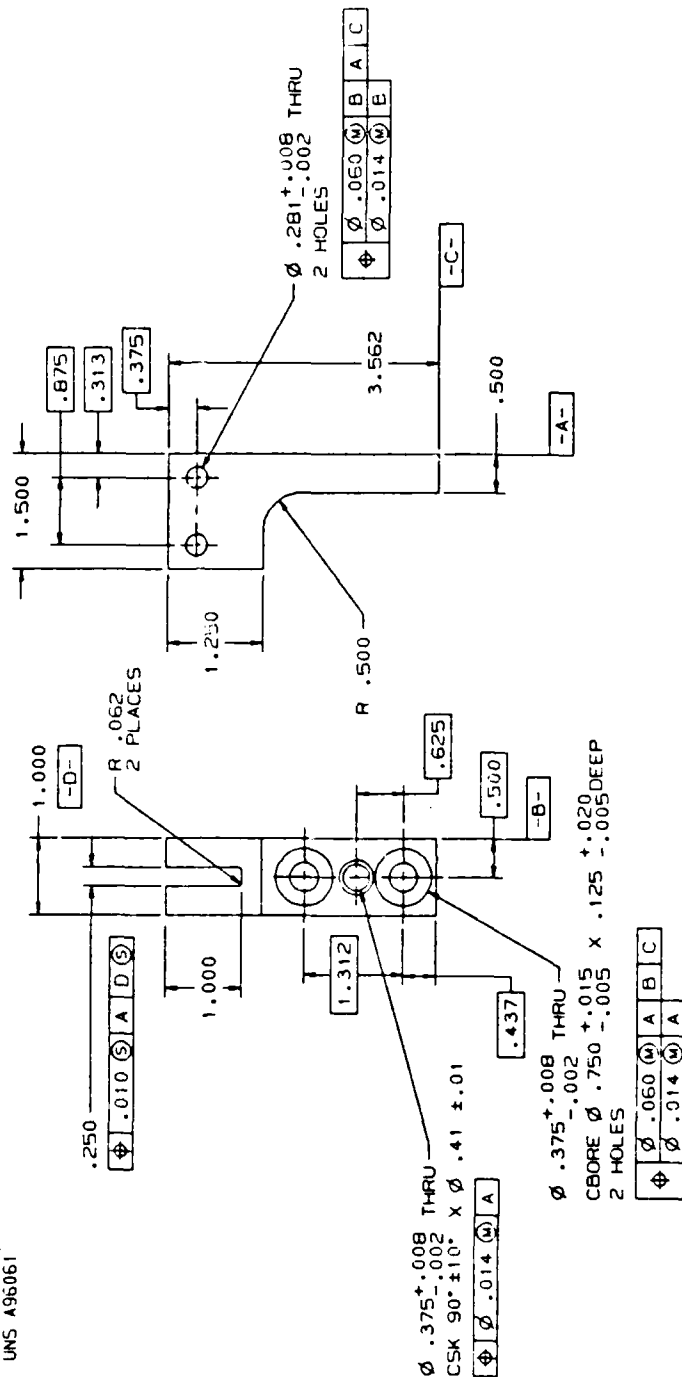


PART NO.

MECHANICAL PROPERTIES	GO GO SCALE BRIDGING	DESIGN DATE OF BRIDGING
STRENGTH	STRENGTH	STRENGTH
STIFFNESS	STIFFNESS	STIFFNESS
STABILITY	STABILITY	STABILITY
STRESS	STRESS	STRESS
STRAIN	STRAIN	STRAIN
TEMPERATURE	TEMPERATURE	TEMPERATURE
WIND	WIND	WIND
SEISMIC	SEISMIC	SEISMIC
OTHER	OTHER	OTHER
APPROVAL	APPROVAL	APPROVAL
DATE	DATE	DATE
BY	BY	BY
CHECKED	CHECKED	CHECKED
DATE	DATE	DATE
BY	BY	BY
APPROVAL	APPROVAL	APPROVAL
DATE	DATE	DATE
BY	BY	BY

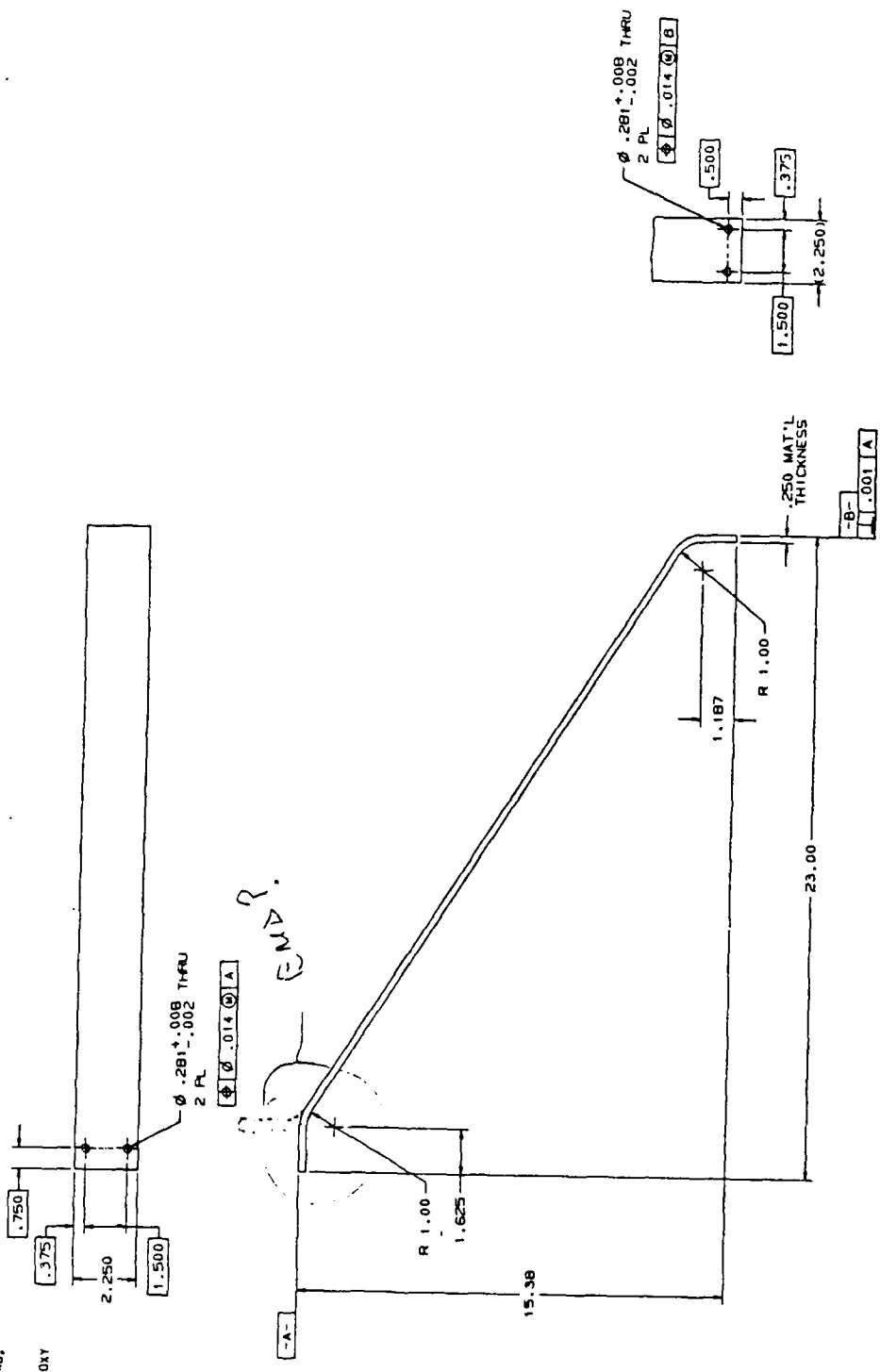
BAR,
TRACK SUPPORT

1. EDGES .005-.020
2. EXCEPT AS NOTED:
FILLET'S R .005-.020
3. ANODIZE MIL-A-8625, TYPE 2, C
4. IDENTIFY AS " 12585939 "
AND MFR NUMBER BY BAG, TAG,
OR BOX
5. MATERIAL:
AL ALLOY
AA 6061-T6, T651
UNS A96061



		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		BRACKET, ROLLER MOUNT	
		TP	L/T	UNLESS DIMENSIONS SPECIFIED DIMENSIONS ARE IN INCHES		DATE 07-2-2		U.S. ARMY	
		15	L/T	TOLERANCES ON DECIMALS = .020 ± 0.010		1. DATE		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
		16	L/T	FRACTIONS = 1/16		TEMP C/J/T		QUARTER, NEW JERSEY 07001-5001	
		18	L/T	THIRD ANGLE PROJECTION		TEMP C/J/T			
		20	L/T			TEMP C/J/T			
		22	L/T			TEMP C/J/T			
		24	L/T						
		26	L/T						
		28	L/T						
		30	L/T						
		32	L/T						
		34	L/T						
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		140	L/T						
		142	L/T						
		144	L/T						
		146	L/T						
		148	L/T						

1. PARTS: 005-020
2. ALL DIMENSIONS ARE IN INCHES
3. IDENTIFY AS "12585940" PART NUMBER BY BAG, TAG, OR BOX
4. MATERIAL: CARBON FIBER EPOXY



PART NO. 12585940/A

BAR TRACK SUPPORT

MECHANICAL PROPERTIES		DD MET SCALE DRAWING		ORIGINAL DATE OF DRAWING	
TEMP	STRESS	TEMP	STRESS	DATE	BY
70		TEMPERATURE	STRESS		
100		TEMPERATURE	STRESS		
150		TEMPERATURE	STRESS		
200		TEMPERATURE	STRESS		
250		TEMPERATURE	STRESS		

APPLICATION: LITHO

STATUS: USER B7/03/05 M00672 LITHO

1. EDGES .005"-.020
2. EXCEPT AS NOTED:
3. FILLETS R .005"-.020
4. IDENTIFY AS " 125B5941 "
AND MFR NUMBER BY BAG, TAG,
OR BOX
MATERIAL:
URETHANE

FRONT VIEW: Overall width 2.000, height 2.000. Four corner holes with diameter $\phi .375^{+0.002}_{-0.000}$. Center hole with diameter $\phi .750$. Fillets R .093. Section lines A-A and B-B.

TOP VIEW: Overall width 2.000, depth 2.000. Four corner holes with diameter $\phi .375^{+0.002}_{-0.000}$. Center hole with diameter $\phi .750$. Fillets R .093. Section lines A-A and B-B.

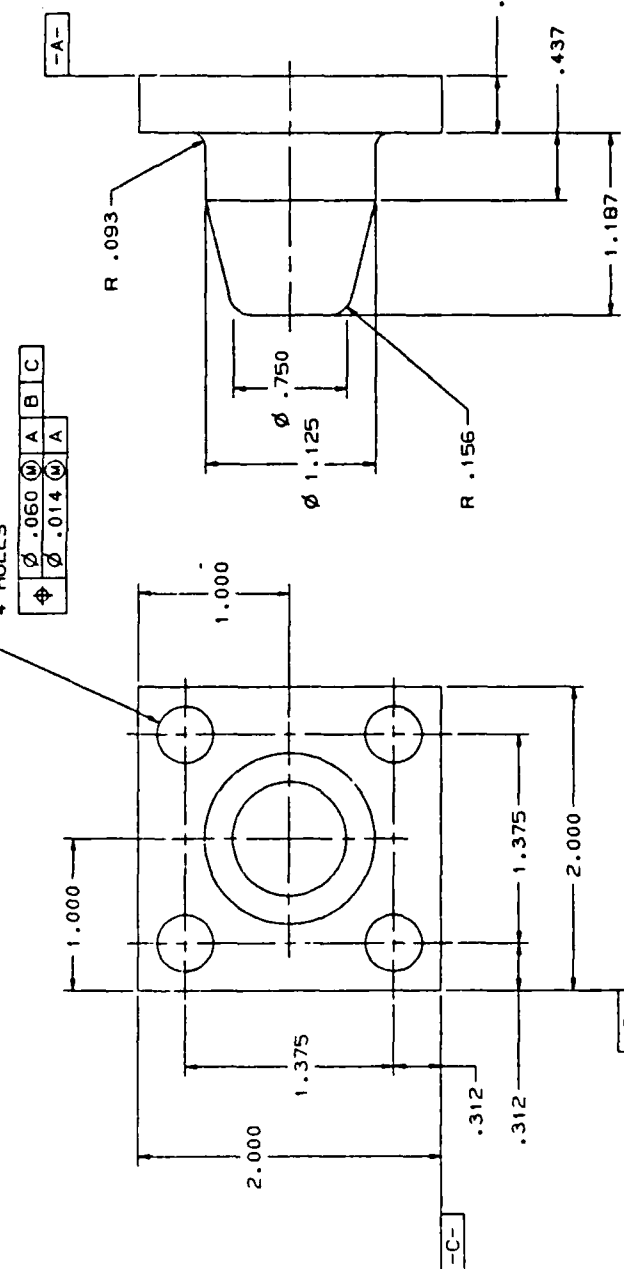
SECTION A-A: Overall width 2.000, height 2.000. Four corner holes with diameter $\phi .375^{+0.002}_{-0.000}$. Center hole with diameter $\phi .750$. Fillets R .093. Section lines A-A and B-B.

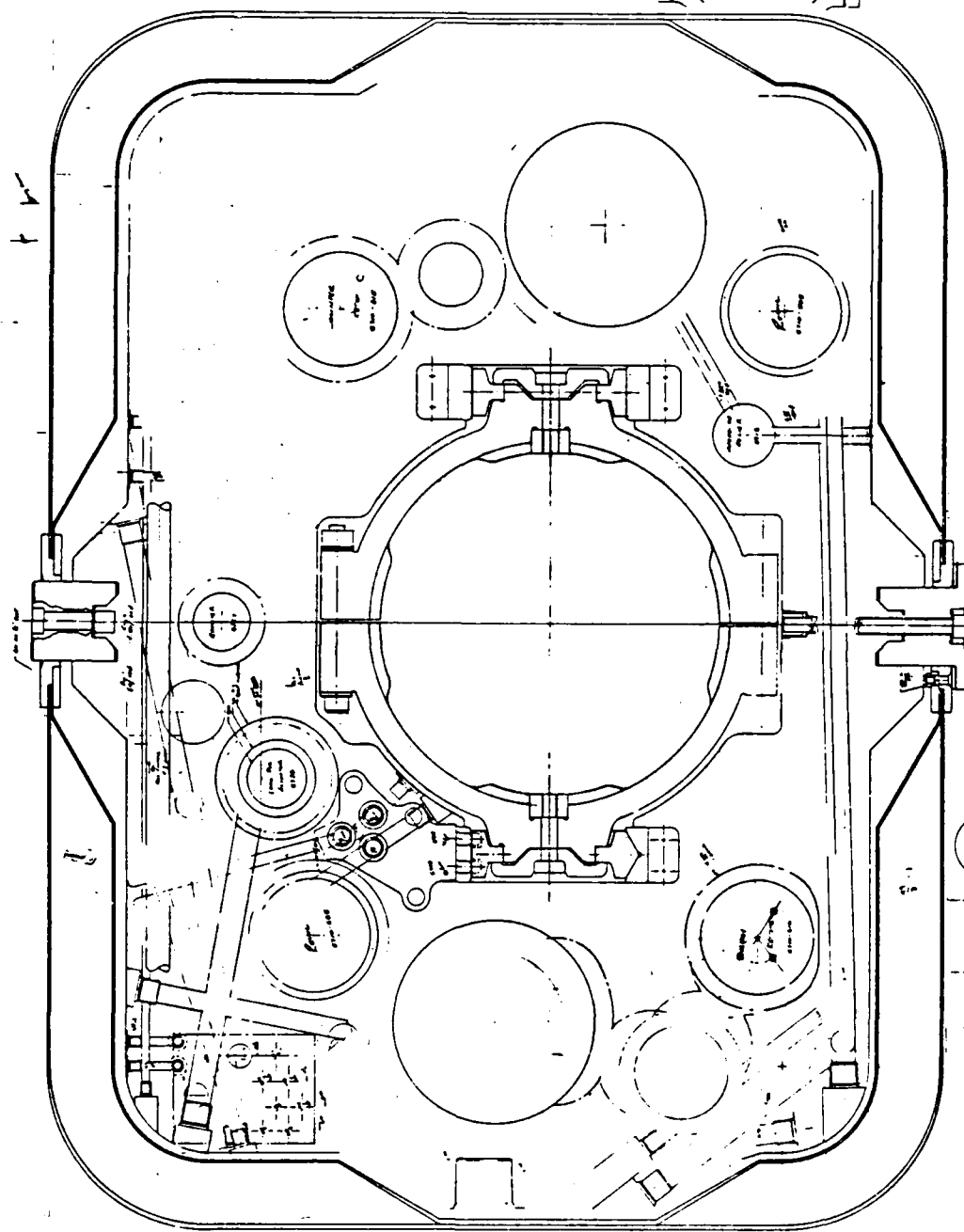
SECTION B-B: Overall width 2.000, height 2.000. Four corner holes with diameter $\phi .375^{+0.002}_{-0.000}$. Center hole with diameter $\phi .750$. Fillets R .093. Section lines A-A and B-B.

TABLE:

VIEW	SECTION	SECTION	SECTION	SECTION
FRONT	A	B	C	D
TOP	A	B	C	D
SECTION A-A	A	B	C	D
SECTION B-B	A	B	C	D

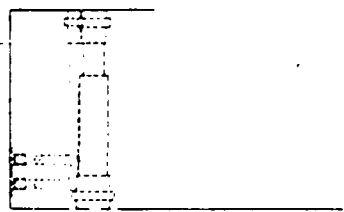
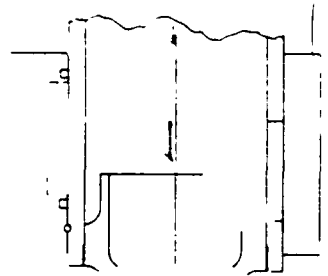
- Ø .375⁺.002 THRU
Ø .000
4 HOLES
- | | | | | | |
|---|--------|--------|---|---|---|
| Ø | Ø .060 | Ø .014 | A | B | C |
| | (M) | (M) | A | | |

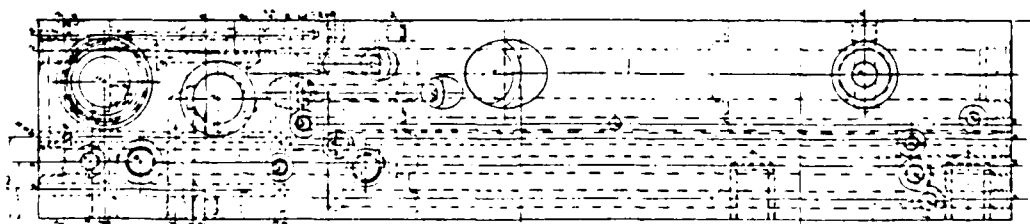
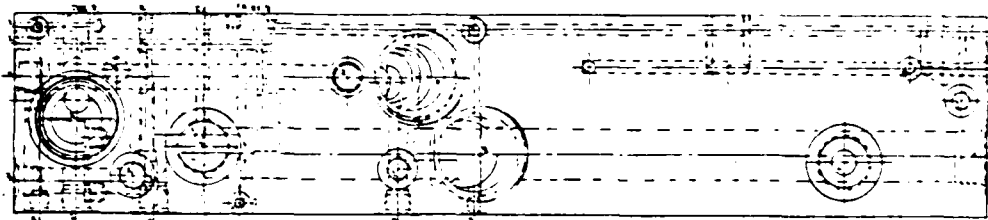
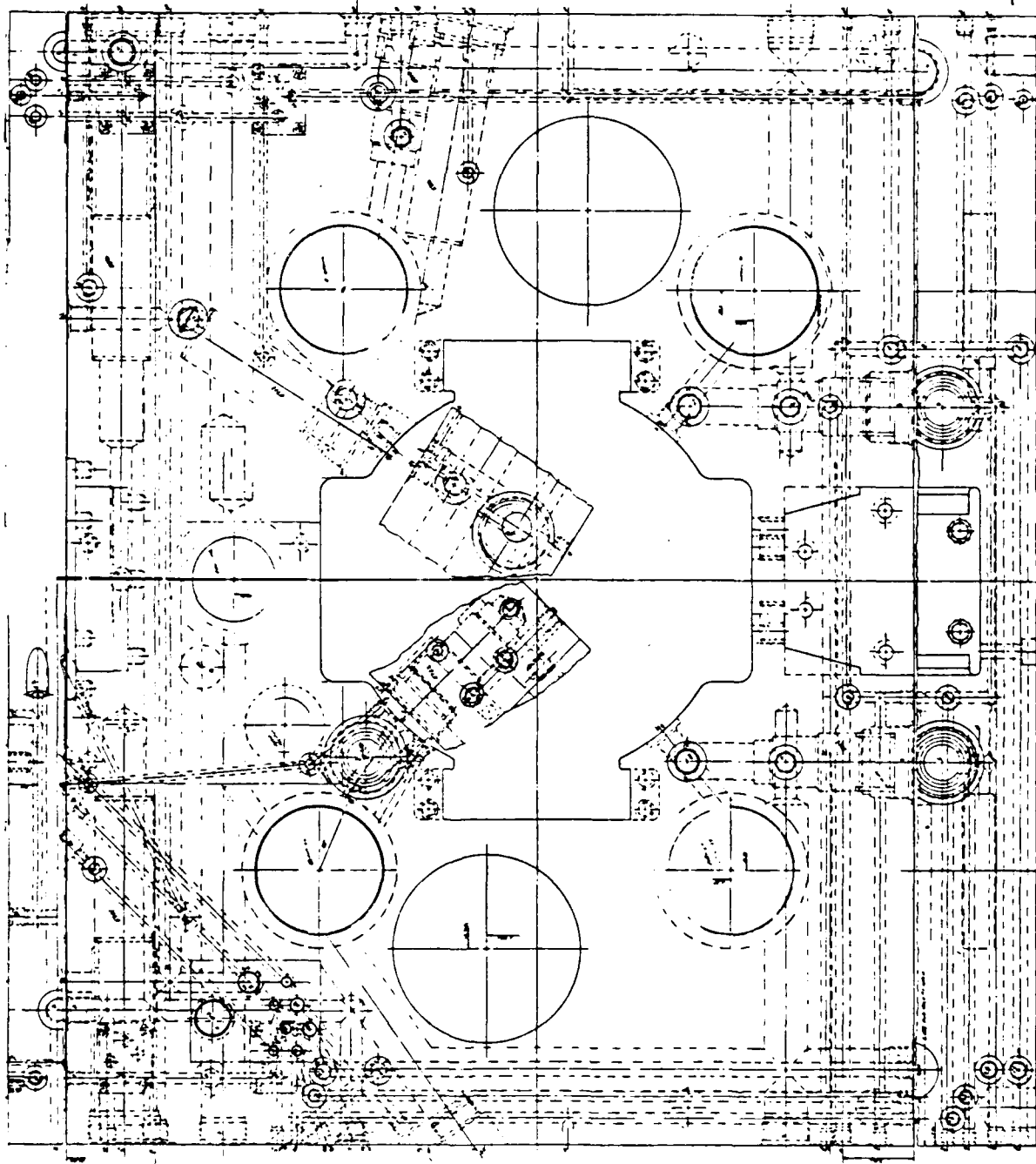
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0. W. 1000000

MID-CRADLE MANIFOLD
T-12585943





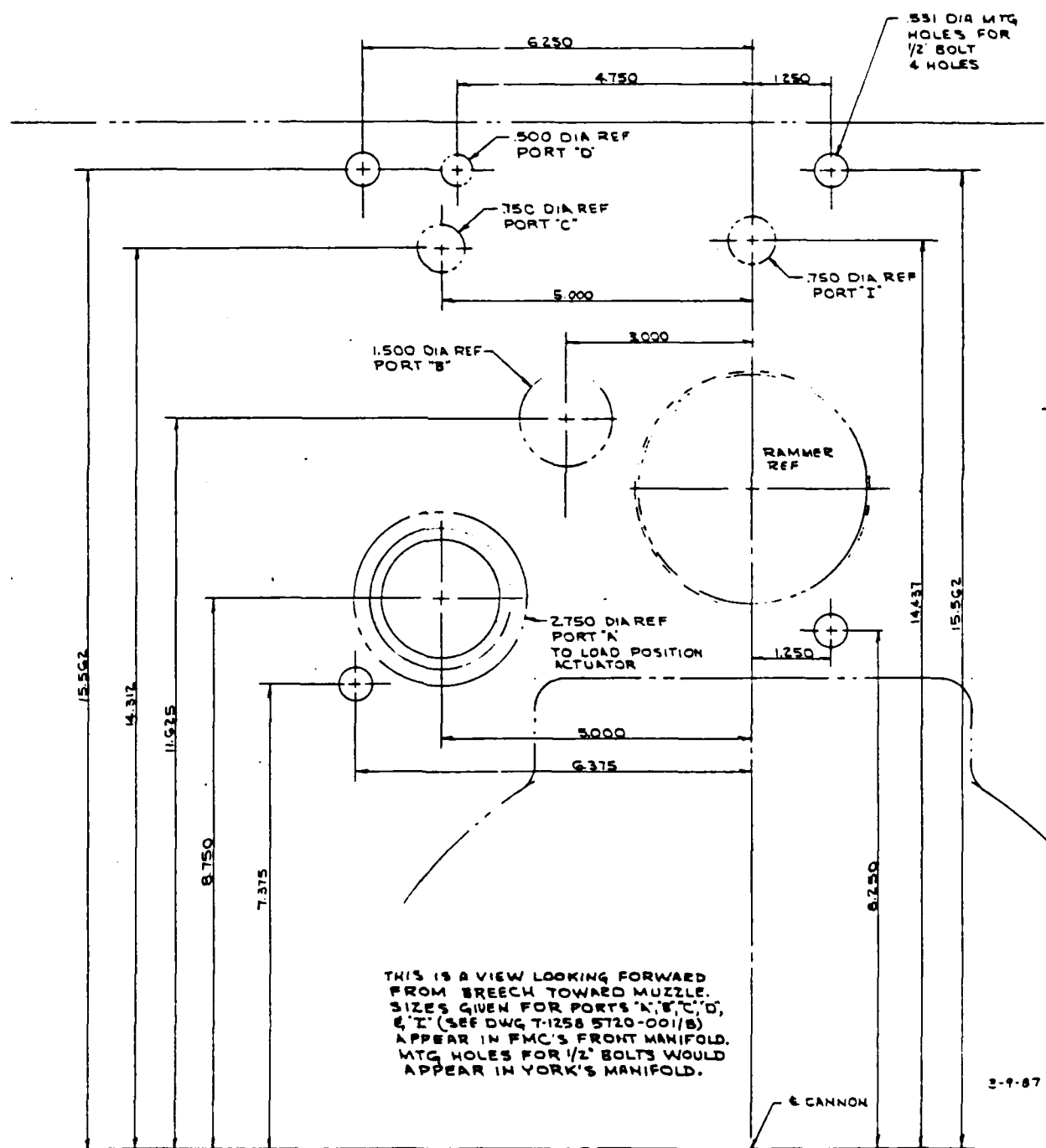
E. MAJIMA

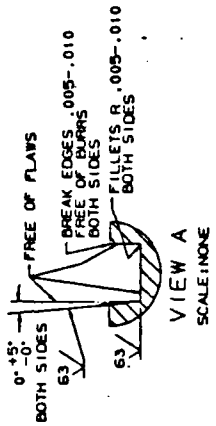
FRONT CRADLE MANIFOLD

T-12585944

SHT 1 of 2

U 1/2" DIA
 FRONT CRADLE MANIFOLD
 (INTERFACE TO T-1258572A,
 EQUAL/RESERV ACCUMULATOR)
 T-12585744 SMT 20P2





- 1:00-16NC-28
SEE NOTE 4

Ø: 500 THRU
SEE NOTE 3

.062 x 45° -
2 PL

SEE VIEW A

5
\$ 1.107
→
SEC. 10156

Ø 1.125
SEE NOTES
2 AND 3

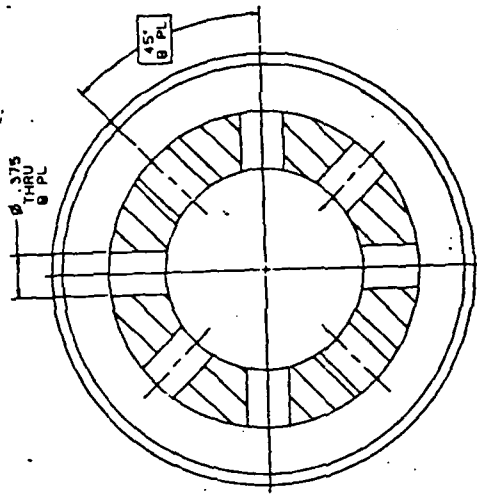
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[illegible]

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[illegible]

CAO STATUS USER 87/01/14 M20E72 LYNORMED



SECTION B-B
SEE SHEET 1

PART NO.

DESIGNER CHECKED DATE		PART NO. END CAP, FRONT T-12585951/B	
MATERIAL QUANTITY UNIT		DATE 19200	
MECHANICAL PROPERTIES TENSILE YIELD ELONGATION REDUCTION OF AREA IMPACT HARDNESS THERMAL CORROSION FATIGUE WELDING OTHER		INITIAL DATE OF TESTING TESTER TEST NO. TEST RESULT TEST METHOD TEST EQUIPMENT TEST LOCATION TEST PERSONNEL TEST COMMENTS	
APPLICATION PART NAME PART NO.		PART NO. END CAP, FRONT T-12585951/B	

AD-A183 997

LIGHTWEIGHT TOWED HOWITZER DEMONSTRATOR PHASE 1 AND
PARTIAL PHASE 2 VOLUM (U) FMC CORP MINNEAPOLIS MINN
NORTHERN ORDNANCE DIV R RATHE ET AL APR 87

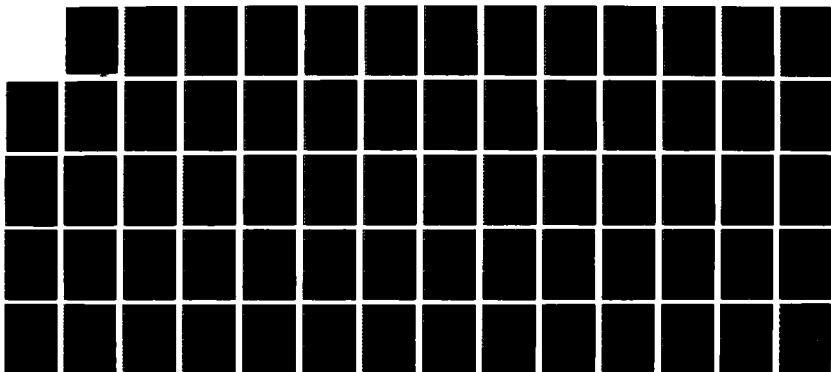
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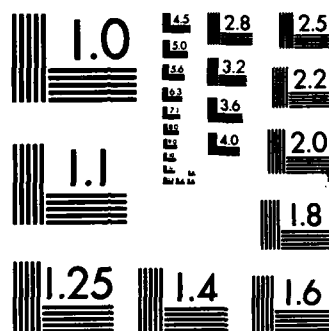
UNCLASSIFIED

FMC-E-3041-VOL-G DAAA21-86-C-0047

F/G 19/6

NL



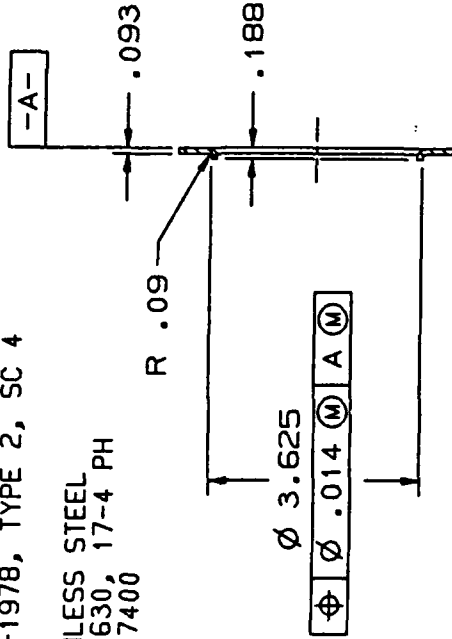


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DRAWING SIZE B

- EXCEPT AS NOTED:
 - EDGES .005-.020
- IDENTIFY AS "T-12585953/B"
AND MFR FSCM NUMBER BY TAG, BAG,
OR BOX PER MIL-STD-130
- ZINC FLAKE/CHROMATE, MIL-C-87115,
CLASS 1, OR ALUMINUM IVD, MIL-C-
83488, CLASS 2, OR ZINC COATING
PER ASTM B633-1978, TYPE 2, SC 4
- MATERIAL:

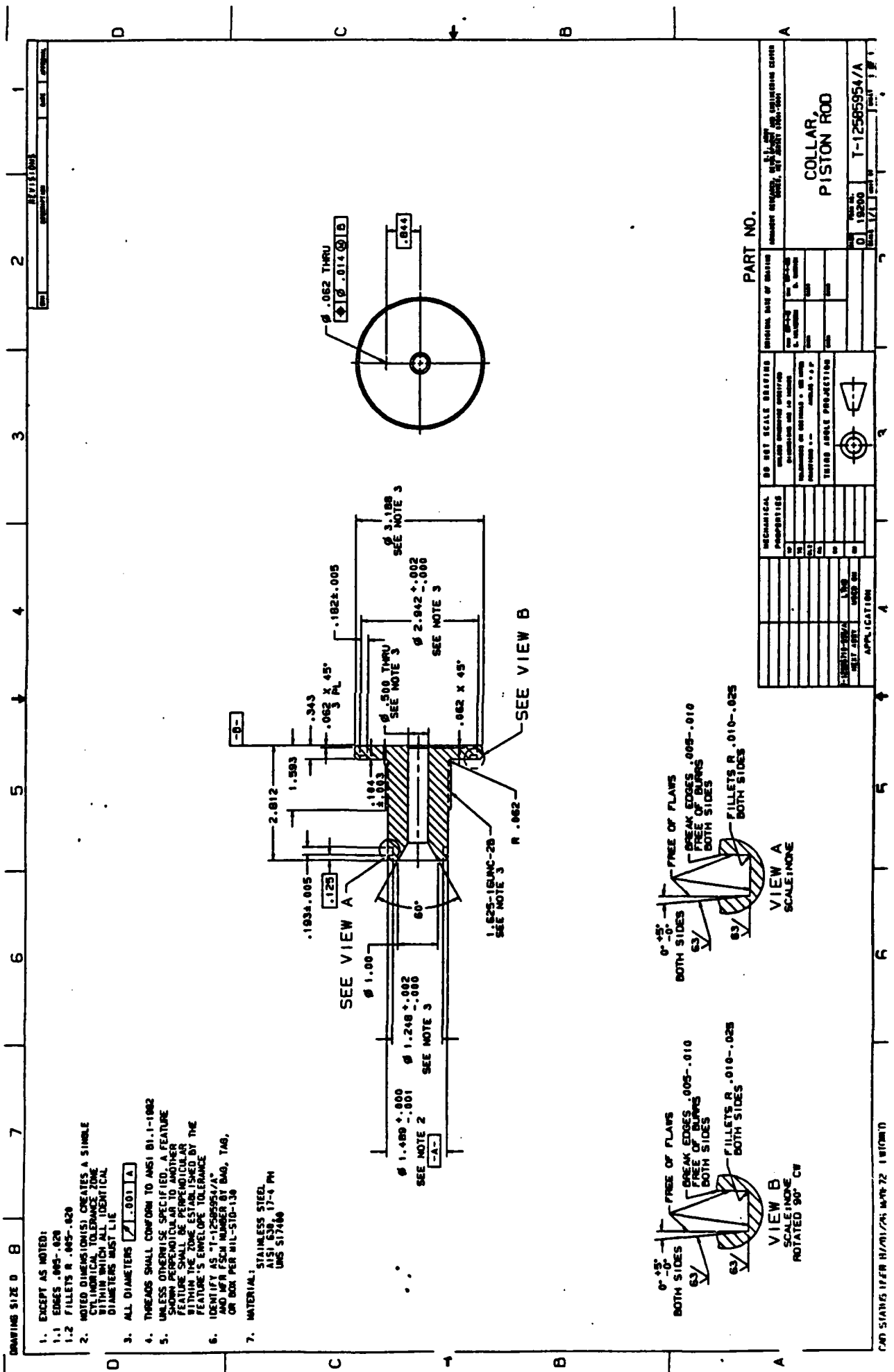
STAINLESS STEEL
AISI 630, 17-4 PH
UNS 17400



PART NO.

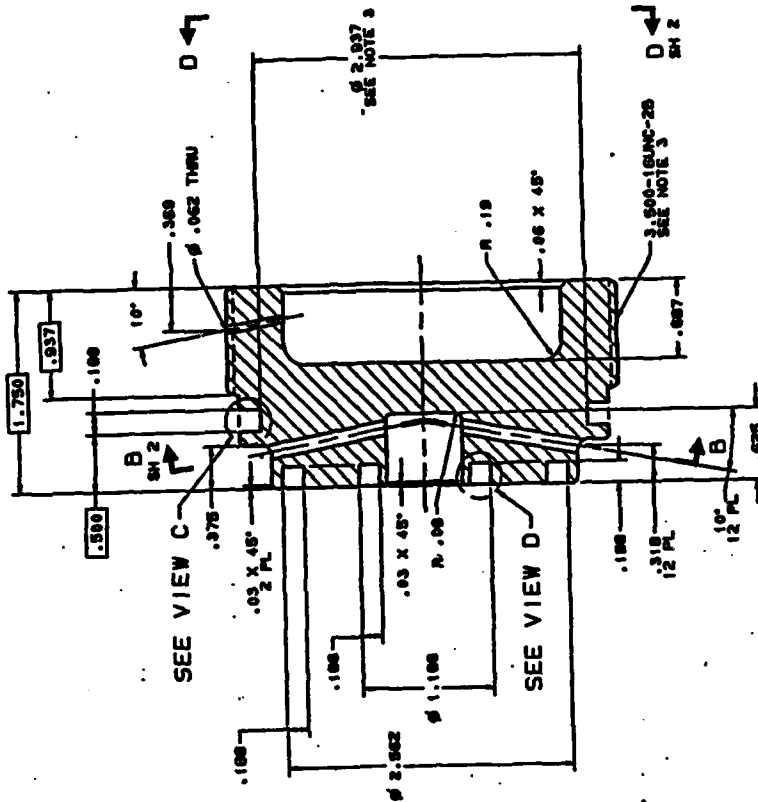
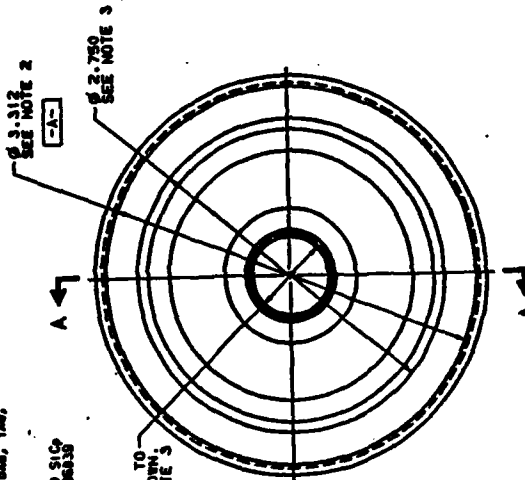
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
TP		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		OWN 87-1-18 S. HALVERSON	CHK 87-1-25 D. WARWICK		
TS		TOLERANCES ON DECIMALS = $\pm .015$		ENGR	ENGR		
EL2		FRACTIONS = --		ENGR	ENGR		
RA		THIRD ANGLE PROJECTION					
BH							
RH							
LTHD							
NEXT ASSY		USED ON					
APPLICATION							
SIZE		FSCM NO.	WASHER, END CAP		SCALE		1/2
B		19200	T-12585953/B		SHEET		1 OF 1

CAD STATUS USER 87/01/27 M20E72 LWTOWED



NAME	DATE	NO. OF PAGES	NO. OF LINES
10011111			

1. EXCEPT AS NOTED:
 - 1.1 DIMS .046-129
 - 1.2 PILETS R .046-.129
2. MATED DIMENSION(S) CREATES A SINGLE CYLINDRICAL TOLERANCE ZONE WITHIN WHICH ALL GEOMETRICAL DIMENSIONS MUST LIE.
3. ALL DIMETERS ☒ .001A
4. THREADS SHALL CONFORM TO ANSI B1.1-1962 UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ENVELOPE OF TOLERANCE.
5. SURF FINISH IS "250Ra".
6. IDENTIFY PCSN NUMBER BY BAG, TAB, OR BOX.
7. MATERIALS:
 - 7091 AL 705 V/D S/C
 - 867 AL 705 V/D S/C
 - 1258AL330



45°
 6" - 8"
 BOTH SIDES
 FREE OF PLAYS
 BREAK EDGES .005-.010
 REG. CH. PLAYS
 BOTH SIDES
 FILLETS R. .010-.025
 BOTH SIDES
 63
 63
 VIEW D
 SCALE NONE
 NOT TO SCALE

SECTION A-A

PART NO. T-12585860-0011/A

**PISTON, ROD
NUT, BOO**

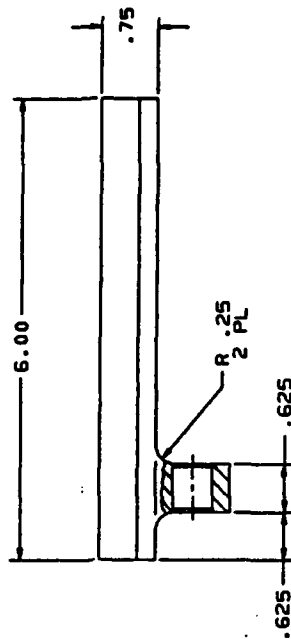
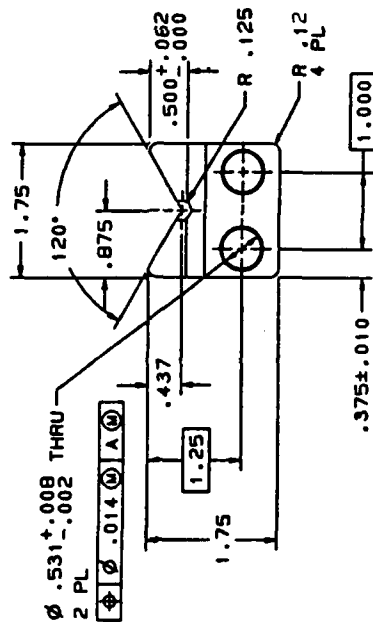
1-12585955/6

APPLICATION

AS STAFF 1988 07/02/12 12:57Z (UNFORMED)

4

1. EXCEPT AS NOTED:
 - 1.1 FILLETS R .005--.020
 - 1.2 EDGES .005-.020
2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
3. IDENTIFY AS "T-12595957/8" AND MFR FSCM NUMBER BY TAG, BAG, OR BOX PER MIL-STD-130
4. MATERIAL: T-12596031-002



PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
1001
GOVERN, NEW JERSEY 07001-5001
U.S. ARMY

WAY BEARING

DATE	SHEET NO.	TITLE
08/09/00	19200	T-12585957/B

CAD STATUS USER 87/02/02 M20E72 1 WTOWEO

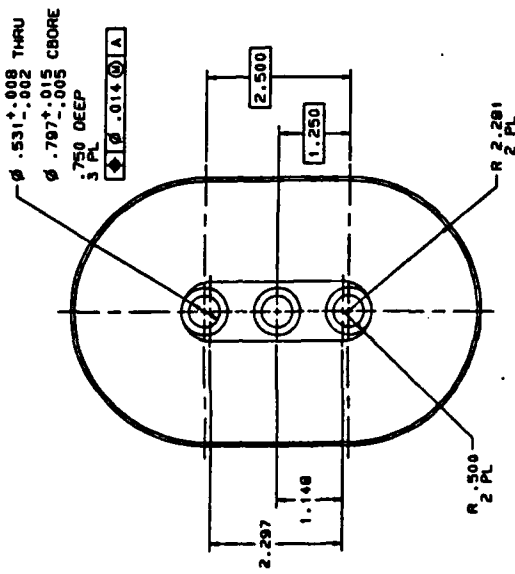
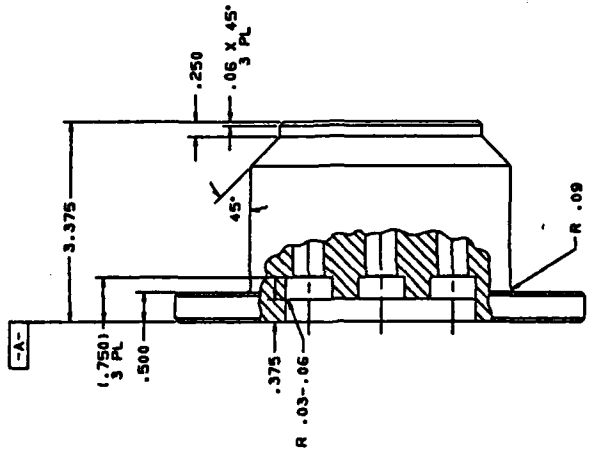
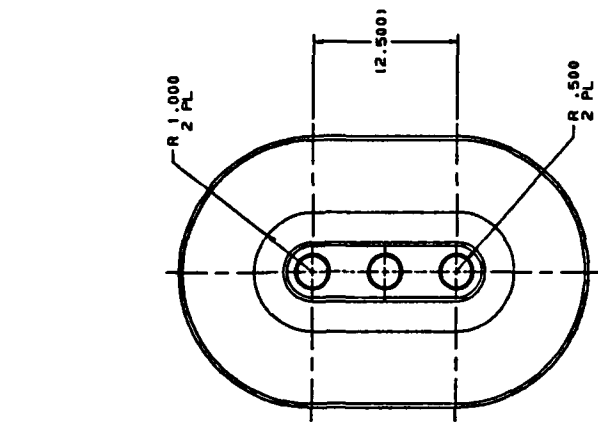
3

70

五

DRAWING SIZE 0 8 1 2 3 4 5 6 7

1. EXCEPT AS NOTED:
1.1 FILLETS R .005-.020
1.2 EDGES .005-.020
2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHALL BE IDENTICAL TO ANOTHER FEATURE SHOWN IN THE DRAWING WITHIN THE TOLERANCE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
3. IDENTIFY AS "T-12585959/B" AND MFR FROM NUMBER BY TAG, BAR, OR BOX PER MIL-STD-130
4. MATERIAL: TITANIUM TIGALAY



PART NO.

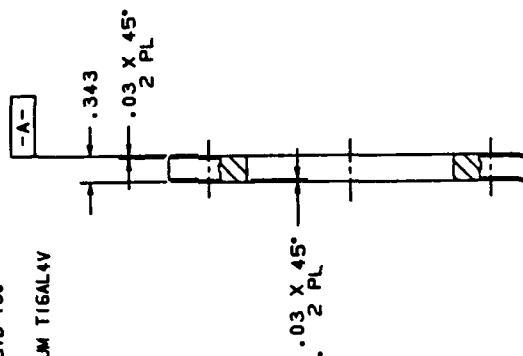
ORIGINAL DATE OF REVISING		REVISIONS	
DATE	BY	DATE	BY
MECHANICAL PROPERTIES		TENSILE STRENGTH	
YIELD	TENSILE	ELONGATION	REDUCTION OF AREA
SURFACE FINISH		SURFACE TREATMENT	
RA	TYPE	TEMP	TIME
THIRD ANGLE PROJECTION		FIRST ANGLE PROJECTION	
MATERIAL		APPLICATION	
TITANIUM TIGALAY		TORQUE PIN, BOTTOM	
PART NO. T-12585959/B		REV. 1/1	

4

1. EXCEPT AS NOTED:

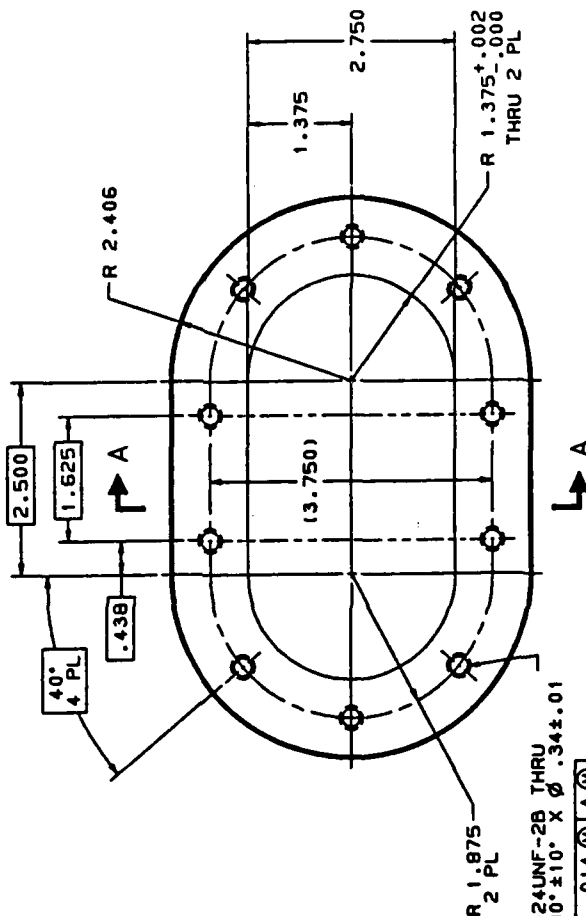
- 1.1 FILLETS R .005-.020
1.2 EDGES .005-.020
2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE
3. IDENTIFY AS "T-12585960/B" AND MFR FSCM NUMBER BY TAG, BAG, OR BOX PER MIL-STD-130
4. MATERIAL: TITANIUM TIGAL4V

TITANIUM T16AL4V



SECTION A-A

312-24UNF-2B THRU
CSK 90° ± 10° X Ø .34 ± .01
10 PL



PART NO.

[illegible]

DRAWING SIZE D B 7 6 5 4 3 2 1

1. EXCEPT AS NOTED:

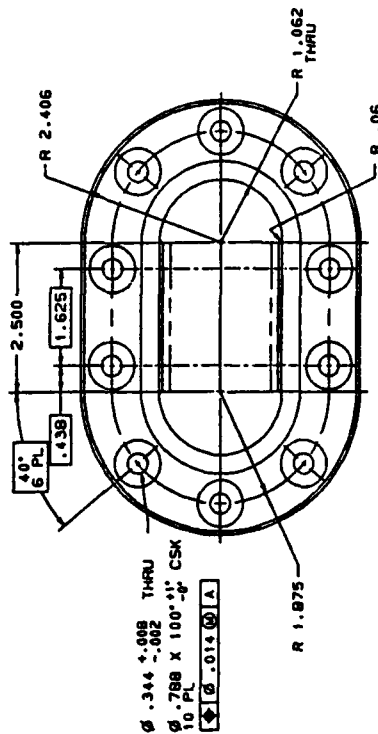
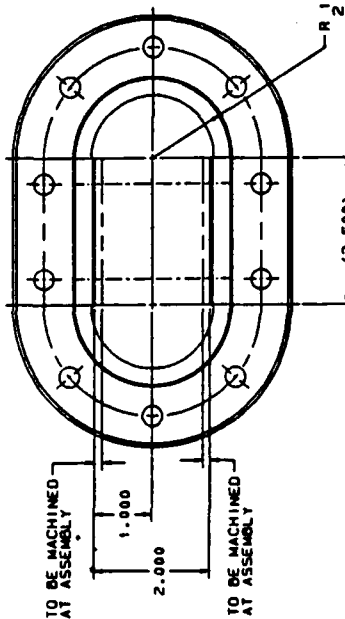
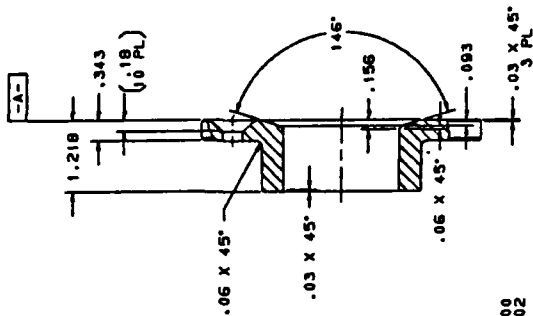
1.1 FILLETS R .005-.020

1.2 EDGES .005-.020

2. UNLESS OTHERWISE SPECIFIED, A FEATURE SHOWN PERPENDICULAR TO ANOTHER FEATURE SHALL BE PERPENDICULAR WITHIN THE ZONE ESTABLISHED BY THE FEATURE'S ENVELOPE TOLERANCE

3. IDENTIFY AS "T-12585961/B" AND MFR FCN NUMBER BY TAG, BAG, OR BOX PER MIL-STD-130

4. MATERIAL: TITANIUM TISAL4V



PART NO.

ORIGINAL DATE OF MAKING

DO NOT SCALE DRAWING

MECHANICAL PROPERTIES

WELD JST

APPLICATION

SLIDE BUSHING, OUTSIDE

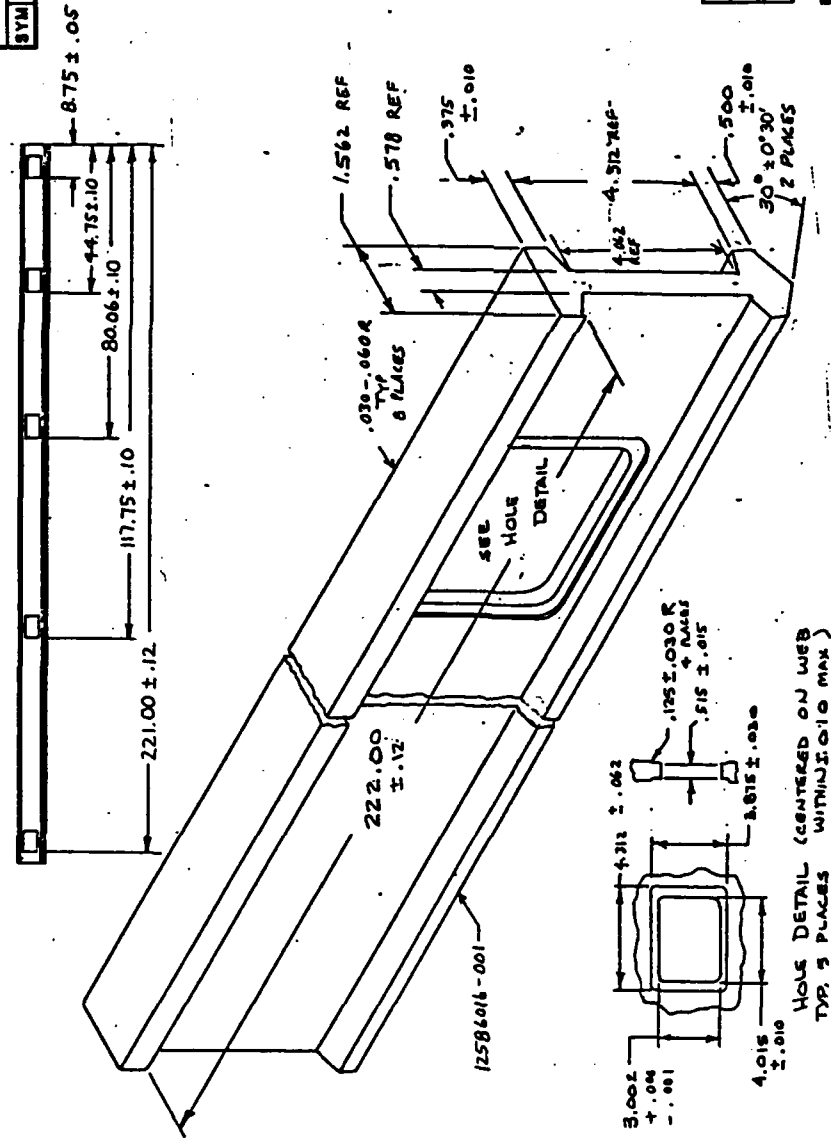
T-12585961/B

19200

1 OF 1

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE



REF. DWG.	DESCRIPTION

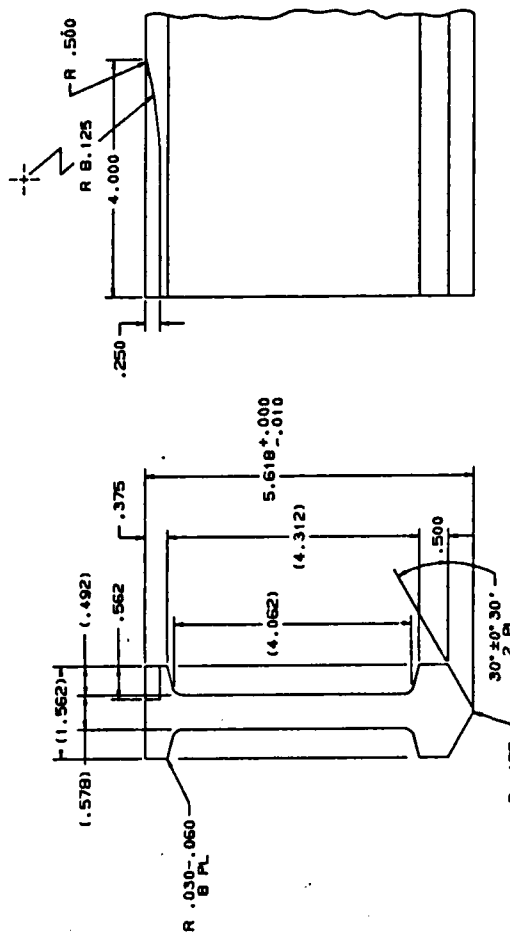
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
RAIL, MACHINING, LH (CENTERING)	
SIZE B	FSCM NO. 19200
SCALE —	UNIT WT. T-12585963 / 8
SHEET 1 OF 1	

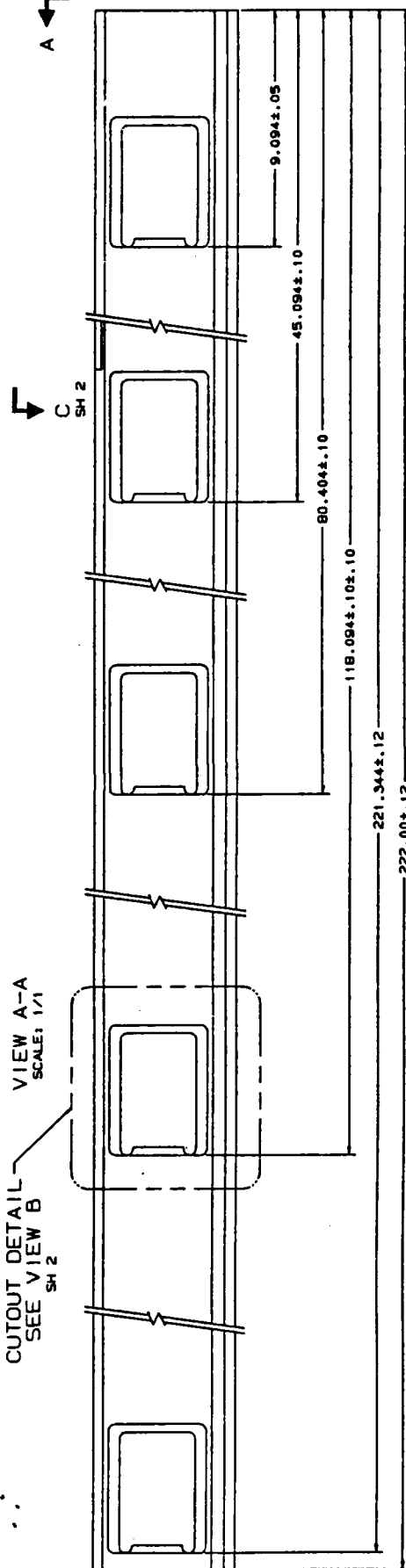
DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN D. WARKICK	CHECKER S. DACKO
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		ENGR	ENGR
THIRD ANGLE PROJECTION		ENGR	ENGR
MECHANICAL PROPERTIES			
YP	TS		
EL2	RA		
BH	RH		
NEXT ASSY		USED ON	
APPLICATION			

SMCAR FORM 66-1 JUN 66 (TEMP) REPLACES ARRACOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

1. EXCEPT AS NOTED:
1.1 FILLETS R-.005-.020
1.2 EDGES .005-.020
2. IDENTIFY AS "1250963" BY BAG,
TAG OR BOX
3. ALL SURFACES 63/
SURFACE FINISH TO RUN PARALLEL
WITH AXIS OF RAIL
5. MATERIAL 1 TO BE MACHINED FROM
PART NO. 1250916-001



CUTOUT DETAIL -
SEE VIEW B

[illegible]

CAO STATUS IFFR 87/03/11 120E72 LTRAIL



✓-SEE NOTE 4



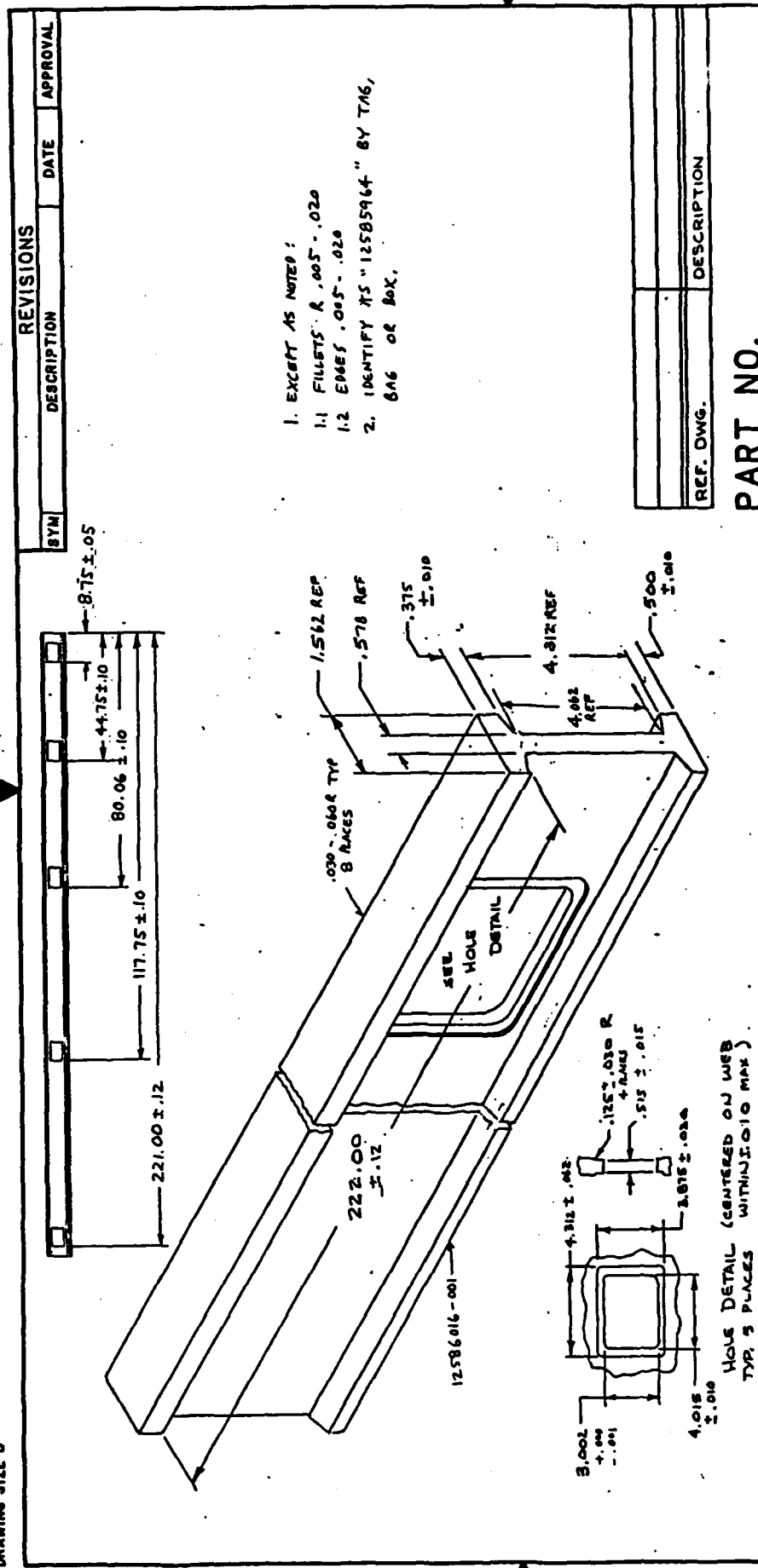
1 13345 335



1/6, 3/10

[illegible]

DRAWING SIZE B



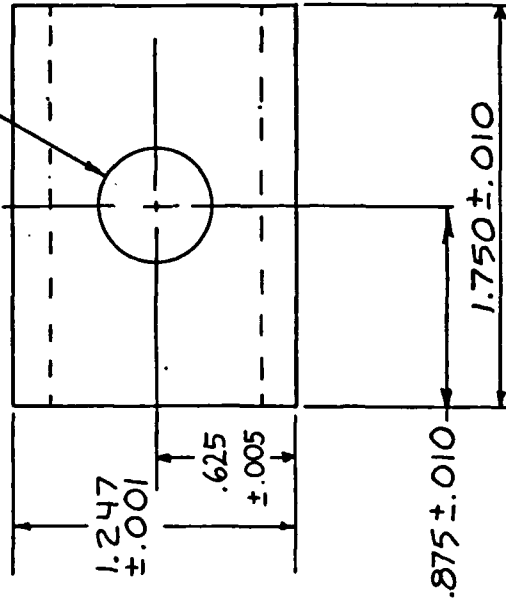
DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
TOLERANCES ON DECIMALS *		DRAFTSMAN	CHECKER
FRACTIONS * ANGLES *		D. WAREWILL	S. DACKO
THIRD ANGLE PROJECTION		ENGR	ENGR
		ENGR	ENGR
MECHANICAL PROPERTIES			
YP			
TS			
EL2			
RA			
BH			
RH			
APPLICATION			
NEXT ASSY	USED ON		
U.S. ARMY			
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER			
DOVER, NEW JERSEY 07801-5001			
RAIL, MACHINING, R.H.			
FSCM NO.			
B 19200			
T-12585964 / B			
SCALE -- UNIT WT.			
SHEET 1 OF 1			

3MCR FORM 66-1 (JUN 66) (TEMP) REPLACES ARADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

SUPPLIER:
WATERVLIET ARSENAL
WATERVLIET, NEW YORK 12189-4050
FSCM No. : 19206

$\phi .526 \pm .005$



NOTES:

1. MATERIAL: .38-.53C AISI
ALLOY STEEL PER FED-
STD-66.

2. BREAK EDGES .015 \pm .005.

3. FINISH 125

$.165 \pm .010 \times 45^\circ \pm 5^\circ$

$.375 \pm .010$

12585785 WATERVLIET-SUPPLIED ITEMS

REF. DWG. DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

KEY RING

SIZE FSCM NO. B 19200 12585965

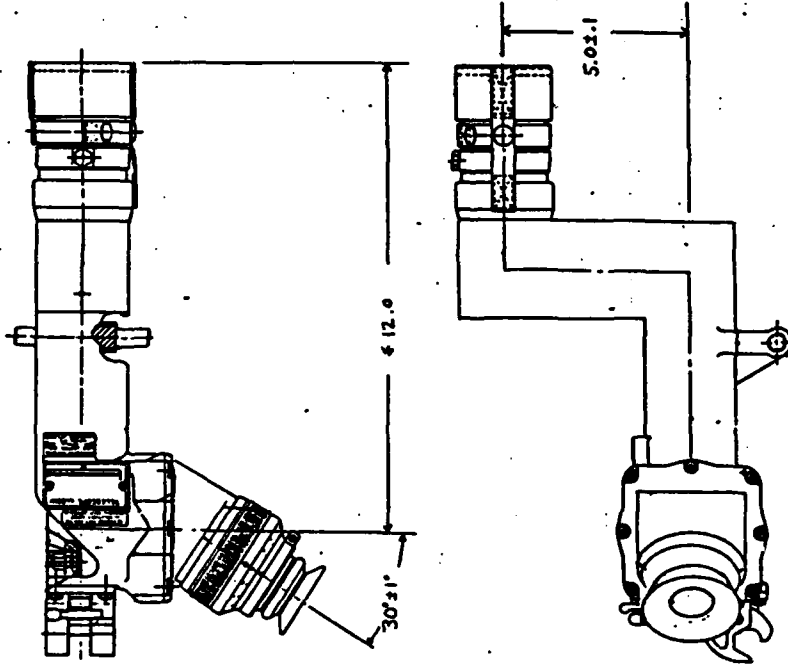
SCALE 2/1 UNIT WT. 0.20 SHEET 1 OF 1

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		87-2-23	
TOLERANCES ON DECIMALS $\pm .015$		DRAFTSMAN: J. TUCKER	
FRACTIONS \pm ANGLES \pm		ENGR 87-2-23 ENGR	
THIRD ANGLE PROJECTION		ENGR 87-2-23 ENGR	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	
YP			
TS			
EL2			
RA			
BH			
APPLICATION		NEXT ASSY USED ON	
12585710-240			

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



NOTES:

1. TELESCOPE SHALL BE IDENTICAL TO M138 ELBOW TELESCOPE IN ALL RESPECTS WITH THE EXCEPTION OF MEETING THE DIMENSIONAL REQUIREMENTS SHOWN ON THIS SAMPLE CONFIGURATION.
2. WEIGHT SHALL BE ≤ 10.0 LBS

REF. DWG.	DESCRIPTION

SAMPLE CONFIGURATION.

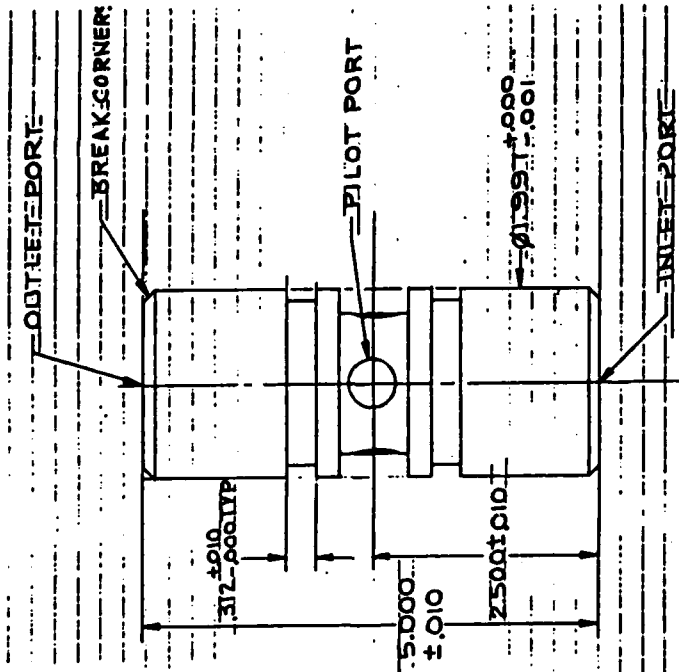
PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001	
DIRECT FIRE TELESCOPE	
SIZE B	FCM NO. 19200
SCALE 1 OF 1	UNIT WT. ≤ 10.0 LBS
ORIGINAL DATE OF DRAWING	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES	
YP	CHECKER
TS	ENGR
EL2	ENGR
RA	ENGR
BH	ENGR
RH	ENGR
APPLICATION	
NEXT ASSY	USED ON

3ACAR FORM 86, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 86, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE D

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No. 1 99656
Vendor Part No. 1



VALVE NO. 05971
LOAD POSITION ACTUATOR
PILOT OPER. CH'K BETWEEN PRES. AND ACT.

WORKING PRESSURE 4000 PSI
MAX. (PROOF) PRESSURE 9000 PSI
MAX FLOW RATE 30 GPM
PRES. DROP @ MAX FLOW 100 PSI
CRACKING PRESSURE 5.0 PSI
ACTUATION TIME N/A SEC.

VALVE TYPE CHECK, PILOTED
BEYOND 3 lbs.
VALVE SIZE: 1.997 in.
DIAMETER 5.00 in.
LENGTH 3.00 in.
MOUNTING METHOD CART., MOUNTED IN THE FRONT MANIFOLD

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCM No. 1 99656

Vendor part no. 1

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
CHECK VALVE, PILOT OPERATED		DRAFTSMAN J. W. WILSON ENGR	
FSCM NO. B 19200		CHECKER ENGR	
T-12505971 /A		ENGR	
SIZE B 19200		THIRD ANGLE PROJECTION	
SCALE 1/1		UNIT WT.	
SHEET 1 of 1			

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED


DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

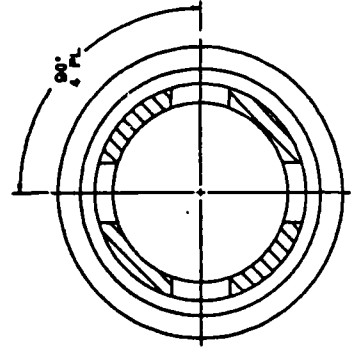
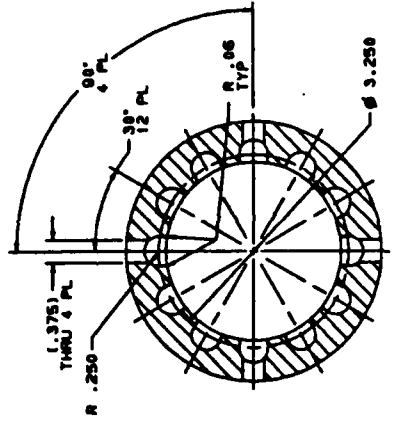
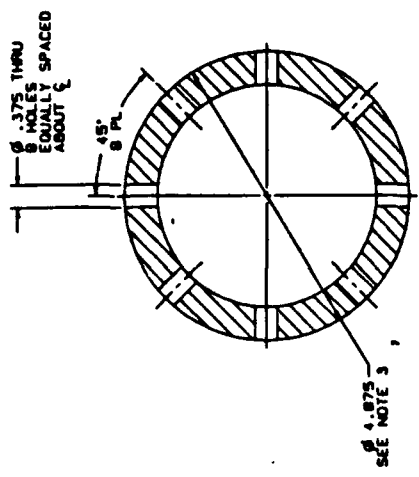
SEQUENCE OF EVENTS WITHIN VALVE (ELEVATION AND TRAVERSE):

1. RECEIVE "MOVE" COMMAND FROM CANNON LAY CONTROL (#5904 OR #5905)
2. PRESSURIZE ACTUATOR TO "P1". (P1 IS ADJUSTABLE FROM 300 TO 1500 PSI [USING R AS ZERO])
3. PRESSURIZE BEARLOC PORT TO 1500 PSIG \pm 50 PSIG (CANNOT USE R AS ZERO REFERENCE).
4. PRESSURIZE ACTUATOR BEYOND P1 TO PRESSURE AND FLOW COMMANDS BY CANNON LAY CONTROL.
5. IF CANNON LAY CONTROL IS SUDDENLY RELEASED STEPS 6-8 WOULD OCCUR IN TIME-CONTROLLED (AND ADJUSTABLE) FASHION.
6. DEPRESSURIZE ACTUATOR TO "P2". (P2 IS ADJUSTABLE FROM 300 TO 1500 PSI [USING R AS ZERO] AND COULD BE INTEGRAL WITH P1 ADJ).
7. DEPRESSURIZE BEARLOC PORT.
8. DEPRESSURIZE ACTUATOR TO R (BOTH ACTUATOR CONTROL PORTS ARE THEN R).

PART NO.

U.S. ARMY ARMAMENT RESEARCH DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
CONTROL LOGIC FOR ELEVATION & TRAVERSE	
SIZE B 19200	FCM NO. T-1258 5972 /A
SCALE —	UNIT WT. —
SHEET 1 of 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 87-1-28
MECHANICAL PROPERTIES	DRAFTSMAN D. ANDERSON
YP	CHECKER
TS	ENGR
EL2	ENGR
RA	ENGR
BH	ENGR
RH	ENGR
APPLICATION	
NEXT ASSY	USED ON
	

DRAWING SIZE 8		7	6	5	4	3	2	1
REVISIONS								
DATE								
BY								
CHECKED								
APPROVED								



SECTION A-A
SEE SHEET 1

SECTION C-C
SEE SHEET 1

SECTION B-B
SEE SHEET 1

PART NO.

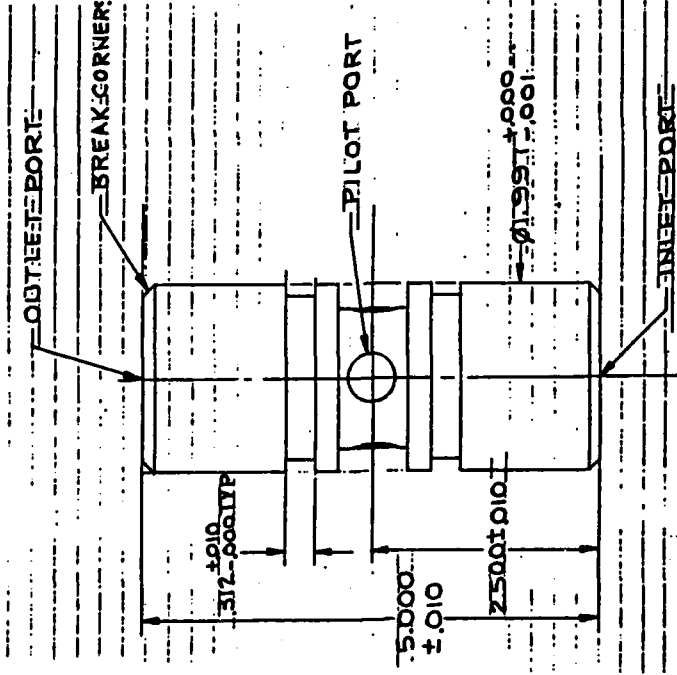
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF PASTING		REVISION		REVISION	
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CYLINDER, C' RECOIL,
ENERGY RECOVERY

T-1245675/A

DRAWING SIZE B

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boscon Ave.
Boscon, NJ 07005
FSCM No.: 99457
Vendor Part No.:



VALVE NO. 5976
CHECK VALVE, PILOT OPERATED

WORKING PRESSURE 3000 PSI
MAX. (PROOF) PRESSURE 4500 PSI
MAX FLOW RATE ---- GPM
PRES. DROP @ MAX FLOW ---- PSI
CRACKING PRESSURE 5 PSI
ACTUATION TIME ---- SEC.

VALVE TYPE CHECK, PILOTED
WEIGHT lbs.
VALVE SIZE: 1.997 in.
DIAMETER 3.000 in.
LENGTH CART., RETAINED
MOUNTING METHOD BY SAE PLUS

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boscon Ave.
Boscon, NJ 07005
FSCM No.: 99456

Vendor part no.:

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
CHECK VALVE, PILOT OPERATED		CHECK VALVE, PILOT OPERATED	
SIZE B 19200	FSCM NO. T-12505976 /A	SCALE 1/1	UNIT WT.
ORIGINAL DATE OF DRAWING		ORIGINAL DATE OF DRAWING	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES		MECHANICAL PROPERTIES	
YP	TS	EL2	RA
BH	RH		
NEXT ASSY		USED ON	
APPLICATION		APPLICATION	
SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRACOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED			

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRACOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED



Suggested Source of Supply:
Marotta Scientific Controls, Inc.
Boston Ave
Boston, NJ 07005
FSCN NO: 99657
Reader Part No. 1

CHECK VALVE, PILOT OPERATED

WORKING PRESSURE	3000 PSI
MAX. (PROOF) PRESSURE	4500 PSI
MAX FLOW RATE	30 GPM
PRES. DROP @ MAX FLOW	100 PSI
CRACKING PRESSURE	5.0 PSI
ACTUATION TIME	SEC.

VALVE TYPE	CHECK, PILOTTED
WEIGHT	lbs.
VALVE SIZE:	1.997 in.
DIAMETER	5.00 in.
LENGTH	CART. RETAINED
MOUNTING METHOD	BY SAE PLUS

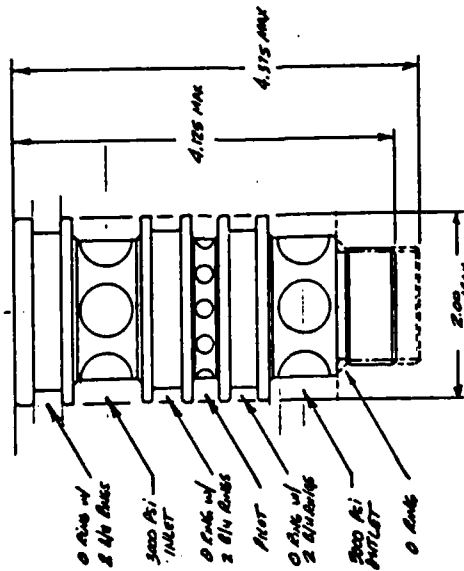
Suggested Source of Supply:
Maratta Scientific Controls, Inc.
Doonton Ave.
Doonton, NJ 07005
FSC# No.: 99456

Vendor part no.1

PART NO.

[illegible]

DRAWING SIZE 8



VALVE NO. 5978 & 5979

ON / OFF VALVE
(pilot operated)

WORKING PRESSURE 3000 PSI
MAX. (PROOF) PRESSURE 4500 PSI
MAX FLOW RATE 30 GPM
PRES. DROP @ MAX FLOW 100 PSI
CRACKING PRESSURE 100 PSI
ACTUATION TIME SEC.

VALVE TYPE PILOTTED CHECK
WEIGHT 1.00 lbs.
VALVE SIZE: 2.00 in.
DIAMETER 7.00 in.
LENGTH 2.00 in. max.
BREECH SIDE PROTRUSION
MOUNTING METHOD THREADED BASE

Suggested Source of Supply:
Harotta Scientific Controls, Inc.
Boonton Ave.
Boonton, NJ 07005
FSCN No.: 99656

Vendor part no.:

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ON / OFF VALVE, PILOT OPERATED	
SIZE B 19200	FSCN NO. T-12505928 / 5979 / A	SCALE	UNIT WT. SHEET 1 of 1
ORIGINAL DATE OF DRAWING	DRAFTSMAN D. K. Kline	CHECKER ENGR	ENGR
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES	YP	TS	EL2
	RA	BH	RH
NEXT ASSY	USED ON	APPLICATION	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



CHECK VALVE, E: RECOVERY.


WORKING PRESSURE
MAX. (PROOF) PRESSURE
MAX FLOW RATE
PRES. DROP @ MAX FLOW
CRACKING PRESSURE
ACTUATION TIME

VALVE TYPE	WEIGHT	VALVE SIZE, 1 DIAMETER	LENGTH	MOUNTING METHOD
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
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70	70	70	70	70
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72	72	72	72	72
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80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87		

/3800 PSI.
/ PSI.
/60 GPM.
/100 PSI.
/ PSI.
/ SEC..

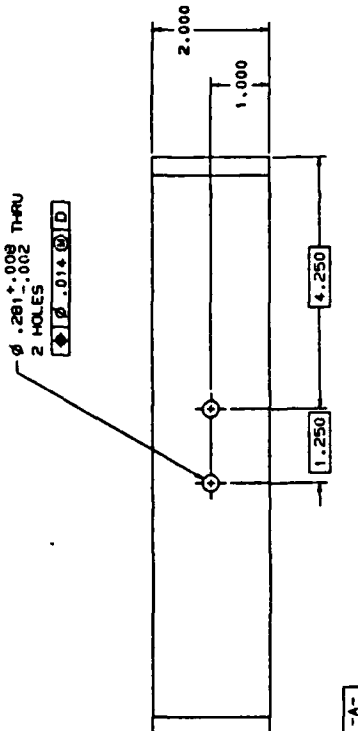
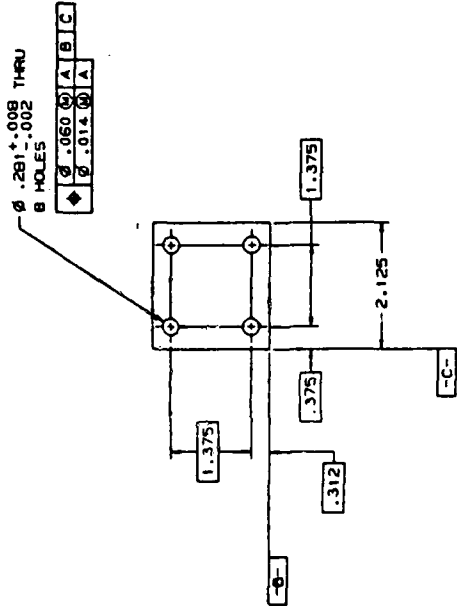
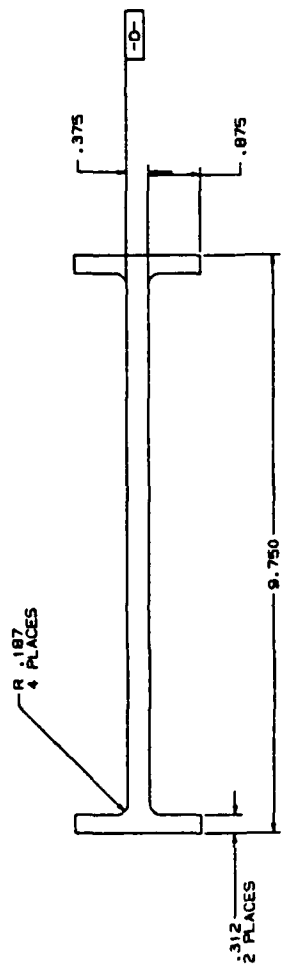
/CHECK.
/ 1b..
/2.25 in..
/6.00in..
THREADED BASE.

PART NO.

				MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001	
				YP				DRAFTSMAN	CHECKER		
				TS				WABRICK	ENGR		
				EL2			TOLERANCES ON DECIMALS *	ENGR			
				FA			FRACTIONS * ANGLES *				
				BH			THIRD ANGLE PROJECTION	ENGR	ENGR		
											
				RH							

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
USERS MAY BE ILL-EGN UNTIL FVMAILSTFN

1. EDGES .005-.020
2. EXCEPT AS NOTED:
FILLETS R .005-.020 -
3. IDENTIFY AS " 12505902 "
AND MFR NUMBER BY BAG, TAG,
OR BOX
4. MATERIAL:
COMPOSITE FIBER EPOXY

[illegible]

DRAWING SIZE C

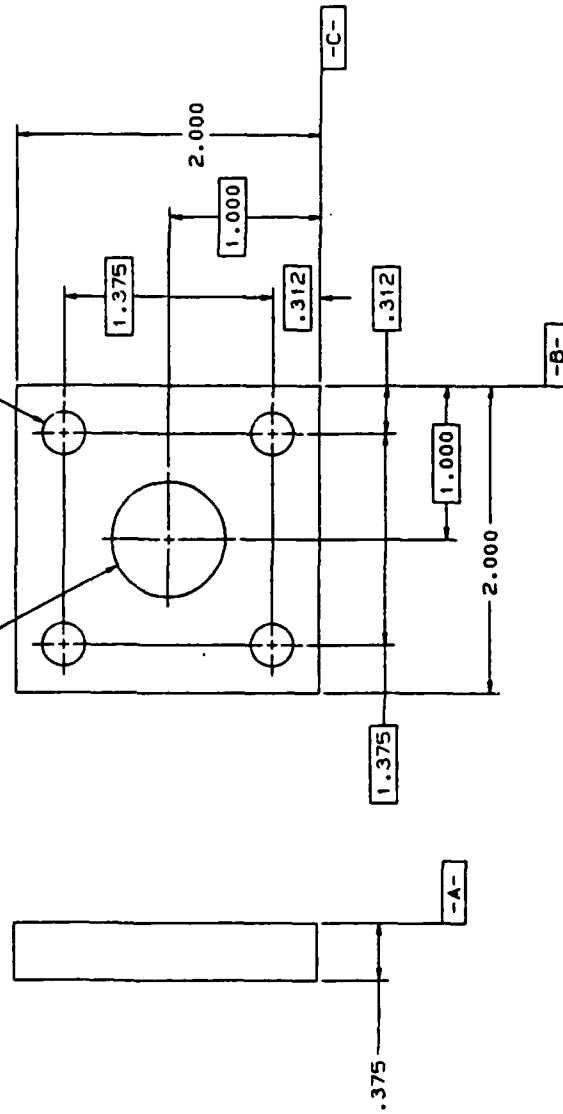
4

3

2

1

1. FILLETS R .005-.020
2. EXCEPT AS NOTED:
EDGES .005-.020
3. IDENTIFY AS "12585983"
AND MFR NUMBER BY BAG, TAG,
OR BOX
4. MATERIAL:
PLASTIC

 $\phi .750^{+0.003}_{-0.003}$ THRU $\phi .014 \text{ (A)}$ $\phi .281^{+0.008}_{-0.002}$ THRU
4 HOLES $\phi .060 \text{ (A)}$ B C
 $\phi .014 \text{ (A)}$ A

REVISIONS		
REV	DESCRIPTION	DATE

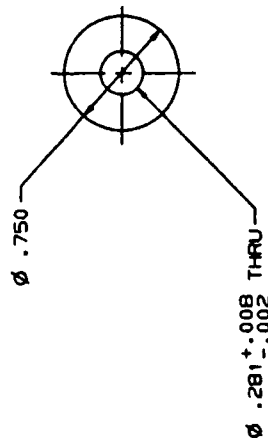
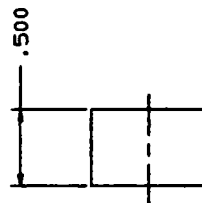
U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER FOYOT, NEW JERSEY 07001-5501	
GUIDE SHOCK, PLUNGER	
T-12585983/A	
C 19200	
SCALE 2/1	
UNIT 1	
SHEET 1	

MECHANICAL PROPERTIES	DO NOT SCALE DRAWING	ORIGINAL DATE OF DATING
1. TYP	UNLESS OTHERWISE SPECIFIED	DATE 07-2-10
2. TS	DIMENSIONS ARE IN INCHES	1. ISSUE
3. CLS	TOLERANCES ON DECIMALS - .001, .002, .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100, .125, .150, .175, .200, .250, .300, .350, .400, .450, .500, .550, .600, .650, .700, .750, .800, .850, .900, .950, 1.000, 1.250, 1.500, 1.750, 2.000, 2.500, 3.000, 3.500, 4.000, 4.500, 5.000, 5.500, 6.000, 6.500, 7.000, 7.500, 8.000, 8.500, 9.000, 9.500, 10.000	DATE 07-2-10
4. RE	FRACTIONS - 1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10	DATE 07-2-10
5. DR	THIRD ANGLE PROJECTION	DATE 07-2-10
6. DR		DATE 07-2-10
7. DR		DATE 07-2-10
8. DR		DATE 07-2-10
9. DR		DATE 07-2-10
10. DR		DATE 07-2-10
11. DR		DATE 07-2-10
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16. DR		DATE 07-2-10
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37. DR		DATE 07-2-10
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58. DR		DATE 07-2-10
59. DR		DATE 07-2-10
60. DR		DATE 07-2-10
61. DR		DATE 07-2-10
62. DR		DATE 07-2-10
63. DR		DATE 07-2-10
64. DR		DATE 07-2-10
65. DR		DATE 07-2-10
66. DR		DATE 07-2-10
67. DR		DATE 07-2-10
68. DR		DATE 07-2-10
69. DR		DATE 07-2-10
70. DR		DATE 07-2-10
71. DR		DATE 07-2-10
72. DR		DATE 07-2-10
73. DR		DATE 07-2-10
74. DR		DATE 07-2-10
75. DR		DATE 07-2-10
76. DR		DATE 07-2-10
77. DR		DATE 07-2-10
78. DR		DATE 07-2-10
79. DR		DATE 07-2-10
80. DR		DATE 07-2-10
81. DR		DATE 07-2-10
82. DR		DATE 07-2-10
83. DR		DATE 07-2-10
84. DR		DATE 07-2-10
85. DR		DATE 07-2-10
86. DR		DATE 07-2-10
87. DR		DATE 07-2-10
88. DR		DATE 07-2-10
89. DR		DATE 07-2-10
90. DR		DATE 07-2-10
91. DR		DATE 07-2-10
92. DR		DATE 07-2-10
93. DR		DATE 07-2-10
94. DR		DATE 07-2-10
95. DR		DATE 07-2-10
96. DR		DATE 07-2-10
97. DR		DATE 07-2-10
98. DR		DATE 07-2-10
99. DR		DATE 07-2-10
100. DR		DATE 07-2-10

CAD STATUS USER 87/03/11 M20E94 LTH04

DRAWING SIZE C

1. EDGES .005-.020
2. IDENTIFY AS "12585984" AND MFR NUMBER BY BAG, TAG, OR BOX
3. MATERIAL: PLASTIC



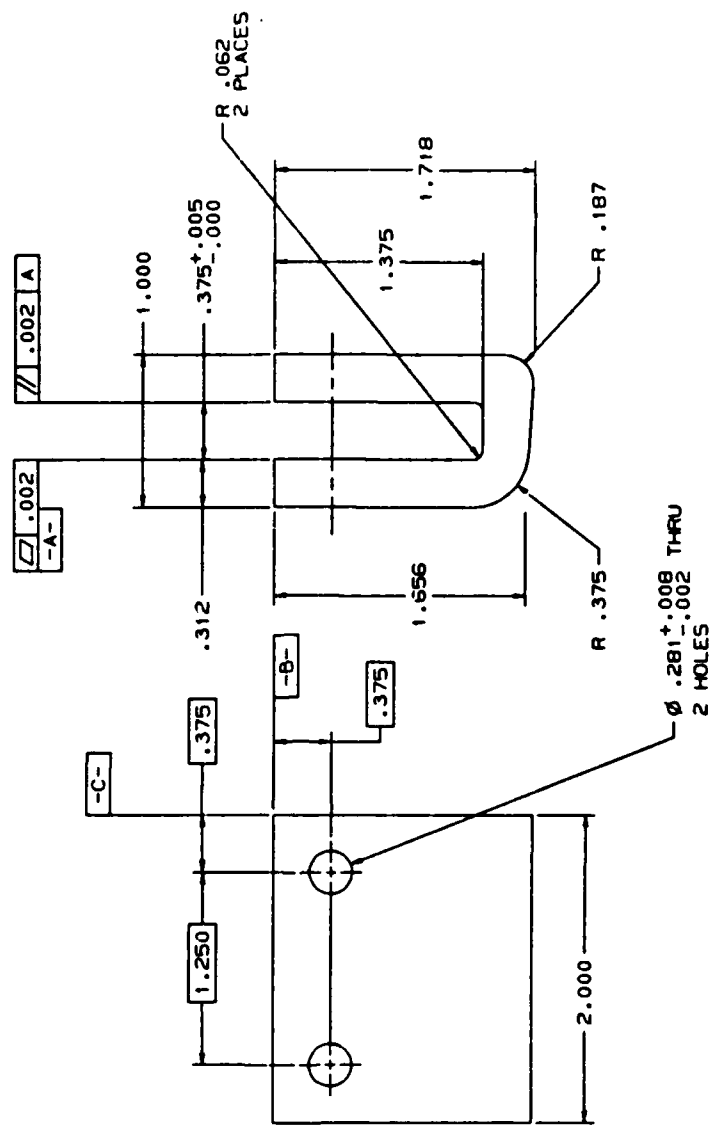
REVISIONS		
SYN	DESCRIPTION	DATE

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER FORT MONMOUTH, NEW JERSEY 08041-5001		SPACER	
DATE C 19200	FIG. NO. T-12585984/A	SHEET 1	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS: .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100, .125, .150, .175, .200, .250, .300, .375, .500, .625, .750, .875, 1.000, 1.250, 1.500, 1.750, 2.000, 2.500, 3.000, 3.750, 4.000, 5.000, 6.000, 7.000, 8.000, 9.000, 10.000 FRACTIONS: 1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10		THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES		ORIGINAL DATE OF DRAWING	
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
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27	27	27	27
28	28	28	28
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30	30	30	30
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93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
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100	100	100	100

CAD STATUS USER 87/03/10 M20E94 LTH04

DRAWING SIZE C

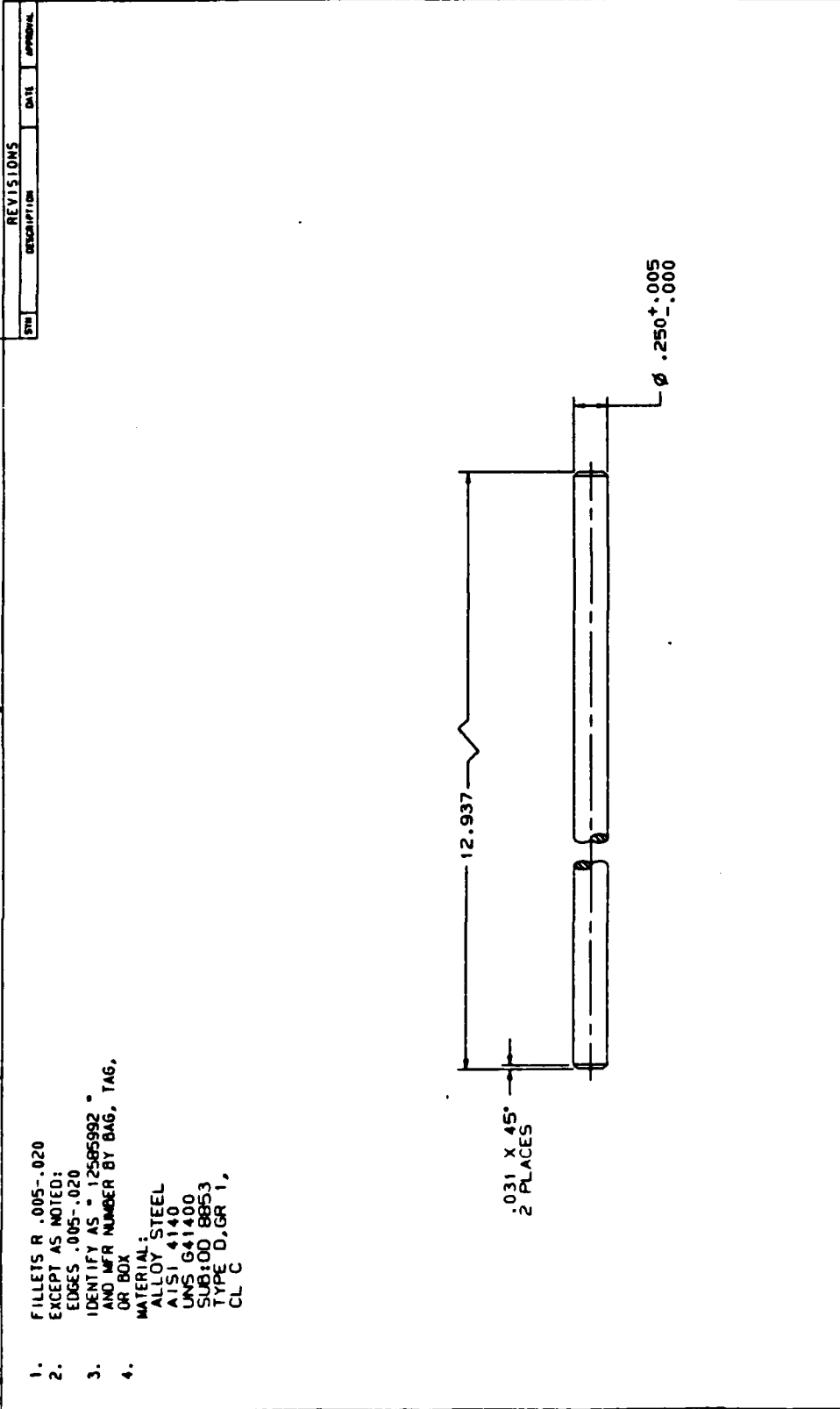
1. FILLETS R .005-.020
 2. EXCEPT AS NOTED:
 3. IDENTIFY AS " 12585991 "
 4. AND MFR NUMBER BY BAG, TAG, OR BOX
- MATERIAL:
PLASTIC



REVISIONS DATE DESCRIPTION DATE DESCRIPTION		ORIGINAL DATE OF ISSUING DATE OF 1.000 DATE OF 1.000		N.E. 801 AMMUNITION RESEARCH, DEVELOPMENT AND ENGINEERING CENTER BOVIE, NEW JERSEY 07001-5501	
BLOCK, STRIKER		SCALE 2/1 UNIT 1		T-12585991/A	
MECHANICAL PROPERTIES TYPICAL TENSILE ELONGATION HARDNESS IMPACT		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS FRACTIONS		THIRD ANGLE PROJECTION	
APPLICATION C/JT NEXT ASSY USED ON		MECHANICAL PROPERTIES TYPICAL TENSILE ELONGATION HARDNESS IMPACT		THIRD ANGLE PROJECTION	

4	3	2	1
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- | REVISIONS | | |
|-----------|-------------|------|
| STW | DESCRIPTION | DATE |

[illegible]

DRAWING SIZE 8

		REVISIONS		APPROVAL
		SYM	DESCRIPTION	
020				
019				
018				
017				
016				
015				
014	BOLT		SEE DWG 12586002-014	MURBLE BRAKE KEY
013			MS18154	
012				
011				
010				
009	BOLT, HEX HEAD, DRILLED		TITANIUM	MS9072R-
008	BOLT, HEX HEAD, DRILLED		CRES.	BAG BLOCK
007	BOLT, HEX HEAD			SAT LAVA R
006	BOLT, HEX HEAD		CRES.	SAT HANDLE
005	BOLT, HEX HEAD			WHEEL
004	BOLT, HEX HEAD, DRILLED			ROTOR DISC
003	SOCKET HEAD CAP SCREW		CRES.	HUB CAP
002	BOLT, HEX HEAD, DRILLED			AXLE CAP
001	BOLT, HEX HEAD		TITANIUM	PIVOT PIN
DASH NO.	DESCRIPTION (TYPE)	THREAD	LENGTH	MATERIAL
				REF PART NO.
				COMMENTS
				USE

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING 1-8-87	
DRAWING NO. B 19200		CHECKER 1-8-87	
SIZE B		DRAFTSMAN J.A. BOURDEAU	
SCALE 1" = 1"		ENGR ENGR	
FSCM NO. 19200		ENGR ENGR	
T-1258 6002/A		ENGR ENGR	
UNIT WT. —		SHEET 1 OF 2	



SIMLAR FORM 89 (JUN 86 ITEM 2) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

[illegible][illegible]

DRAWING SIZE 8

SUPPLIER :
WATERVLIET ARSENAL
WATERVLIET, NEW YORK 12189 - 4050
FSCM NO. 19206
REF: MS18154

REF : USED FOR MUZZLE BRAKE KEY.

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

12585785	WATERVLIET-SUPPLIED ITEMS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

BOLT

SIZE FSCM NO.
B 19200 12586002 - 014
SCALE - UNIT WT. T.O.D. SHEET 1 OF 1

ORIGINAL DATE OF DRAWING 87-2-23		DRAFTSMAN S. DALLAS		CHECKER J. T. HASEK	
		ENGR 87-1-13		ENGR	
		B. ANDERSON		ENGR	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS & FRACTIONS & THIRD ANGLE PROJECTION		ANGLES &	
		YP		TS	
		EL2		RA	
		BH		PH	
12585710-240		NEXT ASSY		USED ON	
APPLICATION					



SMCAR FORM 86-1 JUN 86(TEMP) REPLACES ARRAACOM FORM 86, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE

SUPPLIER:
WATERVLIET ARSENAL
WATERVLIET, NEW YORK 12189-4050
FSCM NO. 19206


NOTES:

1. DIMENSIONS AND TOLERANCES TO BE DETERMINED BY WATERVLIET ARSENAL.
2. MATERIAL TO BE DETERMINED BY WATERVLIET ARSENAL.

REF: USED FOR BENCH KEY / RING KEY.

12585785	WATERVLIET- SUPPLIED ITEMS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-9001		BOLT	
SIZE	FSCM NO.	12586002 - 030	
B	19200	SCALE - UNIT WT. T. E. D. SHEET 1 OF 1	
ORIGINAL DATE OF DRAWING 87-2-23		CHECKER J. T. UEL	
DRAFTSMAN S. DALL		ENGR B. AMERSON	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
MECHANICAL PROPERTIES		APPLICATION	
YP	TS	NEXT ASSY	
EL2	RA	USED ON	
BH	RH	12585785-240	

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRACOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE

PRELIMINARY

DASH NO.	NOMINAL SIZE	I.D.	O.D.	THICKNESS	MATERIAL	REF. PART NO.	COMMENTS	USE
003	1.0	1.000	1.750	.0585	COMPOSITE	CWW32EC4-3	FAFNI	CYL PIVOT - BRIMS
005	5/8	.640	1.188	.063	A-28C	AN 960-C101C		WHEEL BOLT
004	5/8	.640	1.188	.063	A-28C	AN 960-C101C		AREA CAP
003								
002	3.25	3.250	3.250	.0895	COMPOSITE	CWW72E108-3	FAFNIR	PIVOT PIN
001								

91012-03614

PART NO.

[illegible]

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

PRELIMINARY									
DASH NO	I.D.	O.D.	INNER LENGTH	MATERIAL	REF. PART NO.	COMMENTS	USE		
020									
019									
018	2.25	3.562	1.762	CSIL	TORRINGTON		TRAV ACTUATOR ROD		
017	3/4	7/8	1/2	COMPOSITE	CJ344E28-1C	FAFNIR	2-SPOUT ASSEMBLY		
010							UPPER TRAVERSE		
009	3.000	4.75	3.022	3.34	TORRINGTON 305FL48		LOWER TRAVERSE		
007									
006							TRAIL		
005	1	1 1/8	1.00	COMPOSITE	CJ32E3C-32	FAFNIR	BAG BLK - P GRADE		
004	3/4	7/8	1.00	COMPOSITE	CJ344E28-32		SPOT PIVOT		
003	1	1 1/4	1.50	COMPOSITE	CJ32E4D-48		CYL PIVOT, GRADE		
002	5/8	3/4	3/16	COMPOSITE	CJ20E34-0C		NAYES GRADE		
001	2.25	2 1/2	2.0	COMPOSITE	CJ72E80-64	FAFNIR	PIVOT PIN		

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

BEARINGS & BUSHINGS

SIZE B	FSCM NO. 19200	T-1258 6006/C
SCALE —	UNIT WT. —	SHEET 1 OF

SSMCMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES FORM 66 WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

PART NO.

33BMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE

PRELIMINARY

[illegible]

PART NO.

[illegible]

SMCAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

[illegible]

PRELIMINARY

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

CLAMP

SIZE B	FSCM NO. 19200	T-1258-6008/A.
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SCALE	UNIT WT.	SHEET
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ORIGINAL DATE OF DRAWING

1-8-87

RAFTSMAN	CHECKER
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D.K. BODRAPU	ENCA
NCA	

ENGR.	ENGR.
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DO NOT SCALE DRAWING

**UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES**

TOLERANCES ON DECIMALS &

ACTIONS #

THIRD ANGLE PROJECTION

MECHANICAL PROPERTIES

yp

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USED ON	NEXT ASSY

APPLICATION

SSMWAR FORM 66, 1 JUN 86(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.

[illegible]

REVISIONS

DESCRIPTION

DATE _____

APPROVAL

PRELIMINARY

[illegible]

PART NO.

[illegible]

SSSMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

[illegible]

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

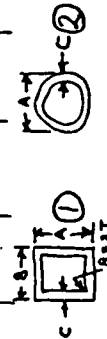
[illegible][illegible]

SSMFCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

[illegible]

014	2	3.75	—	.250	↑	7.0	
013	2	5.5	—	.250		8.0	
012	1	8.5	5.5	.250		39.0	
011	1	6.0	6.0	.250		51.0	
010	2	2.0	—	.125		108.0	
009	1	2.75	2.00	.125		19.0	
008	1	2.75	2.00	.125		11.0	
007	1	2.75	2.75	.125		45.0	
006	1	2.75	2.0	.125	↑	29.0	
005	2	2.0	—	.250		13.0	
004	2	2.0	—	.083		24.0	
003	2	2.0	—	.083		35.0	
002	1	4.0	3.0	.095		19.0	
001	1	4.0	3.0	.095	TIGAL 4V	55.0	



PART NO.

**ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001**

TITANIUM FORM SHAPES

SIZE B	FSCM NO. 19200	--T-1258-6015/A--
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SWEET

UNIT WT.

SCALE

ORIGINAL: DATE OF DRAWING

1-5-87

CHECKER

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ENGR

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DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

PERMANENCES ON DECIMALS

ACTIONS & ANGLES &

THIRD ANGLE PROJECTION



MECHANICAL PROPERTIES

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USED ON	NEXT ASSY

APPLICATION

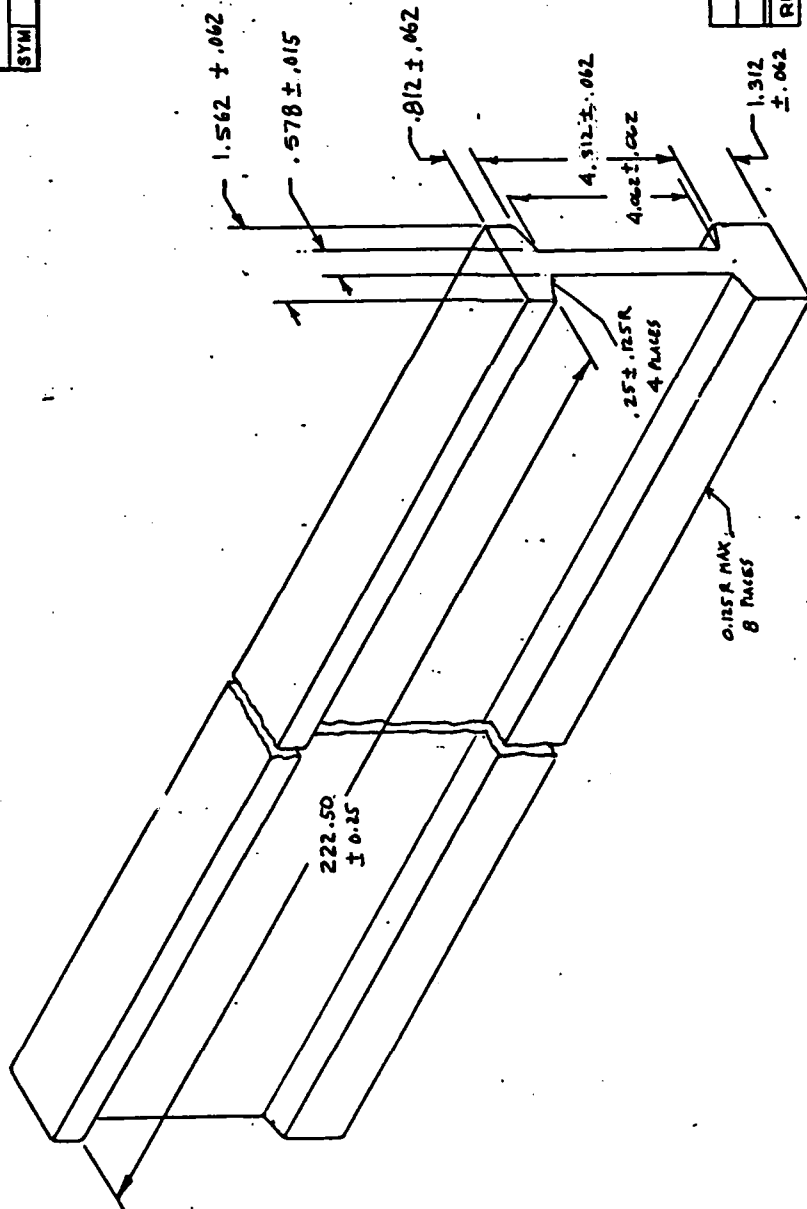
SSM CAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

[illegible]

SSMCMR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



NOTES:
1. MATERIAL:
7091 Al/20 v/o S:CP

12586039	AL/SIC MATERIAL PROPERTIES
12586016 - 000	AL/SIC EXTRUSIONS
REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07001-8001

EXTRUSION, RAIL

SIZE	FSCM NO.	UNIT WT.	SHEET 1 OF 1
B 19200	T-12586016 - 001 / 0		

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		DRAFTSMAN D. WARMICK ENGR	
THIRD ANGLE PROJECTION		CHECKER S. BATES ENGR	
		ENGR	
MECHANICAL PROPERTIES			
YP			
TS			
EL2			
RA			
BH			
RH			
NEXT ASSY	USED ON		
APPLICATION			

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCON FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

Diagram showing a 45-degree TYP 2 PLACES joint. Dimensions are indicated: 2,000 (width), 4,000 ± .062 (length), and 1,250 ± .062 (offset). The angle is 45° TYP 2 PLACES.

Technical drawing of a structural joint showing dimensions and tolerances:

- Top left dimension: $.512 \pm .0012$ 2 PLACES
- Top middle dimension: $1.187 \pm .0012$
- Top right dimension: $.512 \pm .0012$ 2 PLACES
- Bottom left dimension: $.075 \pm .0015$ 2 PLACES
- Bottom right dimension: $.449 \pm .001$ 2 PLACES

REVISIONS		
SYM	DESCRIPTION	DATE

12586039	AL5C MATERIAL PROPERTIES
12586046 - 000	AL5C EXTENSIONS
REF. DWG.	DESCRIPTION

PART NO.

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001
U.S. ARMY

EXTRUSION, CLAMP PLATE

SIZE	FSCM NO.	T-12586016-002 / C
B	19200	
SCALE --		UNIT WT.
		SHEET 1 of 1

ORIGINAL DATE OF DRAWING

DRAFTSMAN B. WARWICK	CHECKER S. DACKO
-------------------------	---------------------

ENGR	ENGR
ENGR	ENGR

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

**TOLERANCES ON DECIMALS &
FRACTIONS & ANGLES &**

THIRD ANGLE PROJECTION

MECHANICAL

NO.	NAME	ADDRESS	TELEPHONE	PROPERTY
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YP			
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	RH			
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[illegible]

APPLICATION	
NEXT ASSY	USED ON

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

SUGGESTED SOURCE OF SUPPLY:
STANDARD LOCKNUT & LOCKWASHER, INC.
PO. BOX 40088 CARMEL INDUSTRIAL PARK
INDIANAPOLIS, INDIANA 46240

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL

[illegible]

PART NO.

[illegible]

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

SYM	REVISIONS		DATE	APPROVAL
	DESCRIPTION			

PRELIMINARY

PARKER 4-F50X-55-VITON 37°F

012 STD TYP. CONNECTOR O-RING 5 STL

011 VALVE SAFETY RELIEF STEEL

010 2URK GASKET STEEL

009 ADAPTER 1/4" NPT TO 1/4" NPTM STEEL

008 NIPPLE 1/4" NPT 1" LONG STEEL

007 UNION 3/4" NPT STEEL

006 NIPPLE 3/4" NPT 2" LONG STEEL

005 ELBOW 90° 1/4" TUBE TO 1/4" TUBE BRASS

004 ELBOW 90° 1/4" TUBE TO 3/8" NPTM BRASS

003 ELBOW 90° 3/16" TUBE TO 1/4" TUBE M. STEEL

002 TEE 3/16" 1/2" TUBE R STEEL

001 ADAPTER 45° 1/4" TUBE TO 3/8" TUBE STEEL

DASH NO. MATERIAL REF PART NO. WHERE USED COMMENTS

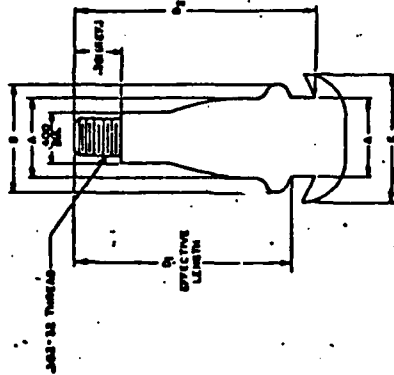
M - MALE
F - FEMALE

PART NO.

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		12-23-80			
YP		TOLERANCES ON DECIMALS ±		DRAFTSMAN		CHECKER	
TS		FRACTIONS ±		D.P. DOWD		ENGR	
EL2		ANGLES ±		ENGR		ENGR	
RA		THIRD ANGLE PROJECTION		ENGR		ENGR	
BH		THIRD ANGLE PROJECTION		ENGR		ENGR	
RH		THIRD ANGLE PROJECTION		ENGR		ENGR	
NEXT ASSY		USED ON		SCALE		SHEET	
APPLICATION		T-1258-G019/B		SIZE		FSCM NO.	
		B 19200		B 19200		T-1258-G019/B	
		UNIT WT.		SCALE		SHEET	

SMCAR FORM 66, 1 JUN 86 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

SUGGESTED SOURCE DA Supply:
EATON CORP.
100 ERIEVIEW PLAZA
CLAYLAND, OH. 44114



TS 10-17-60	SW MOLE % SW	A	B MALE	C W/F	D ₁	D ₂
00-010	.989	0.00	0.00	0.00	1.00	1.00
72-014	.993	0.20	0.80	0.80	1.00	1.00

TO CREDITORS: THE AMERICAN ASSOCIATION

[illegible]

PART NO.

[illegible]

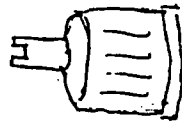
SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE

SUGGESTED SOURCE OR SUPPLY:

EATON CORP.
100 ERIEVIEW PLAZA
CLEVELAND, OH. 44114



TIRE VALVE CAP P&A
MS 51375

REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		CAP, TIRE VALVE	
		SIZE B FSCM NO. 19200 SCALE	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 1-28-87	
MECHANICAL PROPERTIES YP TS EL2 RA BH RH		DRAFTSMAN CHECKER ENGR ENGR ENGR	
TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &		THIRD ANGLE PROJECTION 	
APPLICATION NEXT ASSY USED ON		SHEET 1 OF 1	

SMCAR FORM 66, 1 JUN 86 (TEMP) REPLACES ARRADCOR FORM 66, AUG 77.
MAY BE USED WITH PERMANENT

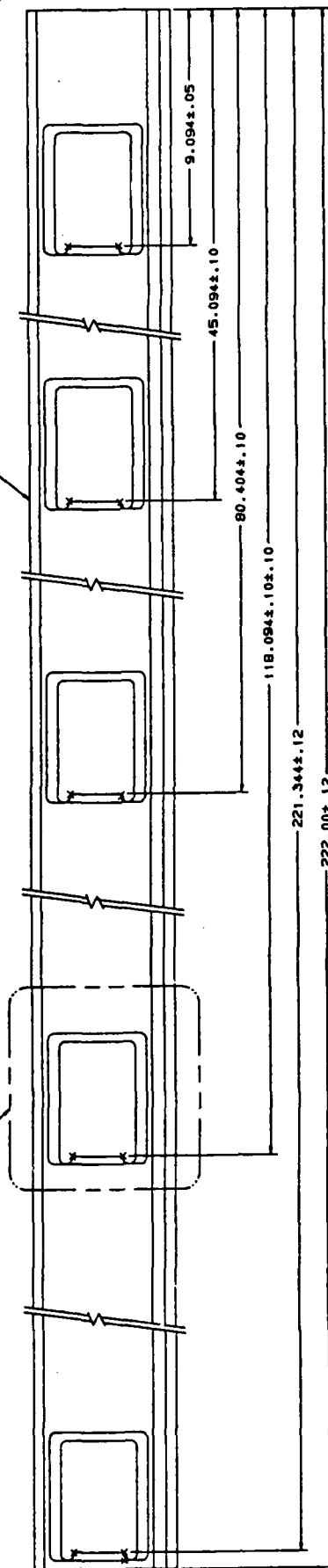
[illegible]

SSM CAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

-
- Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in inches. The drawing includes the following dimensions:
- Overall width: 1.562
 - Distance from left edge to first vertical feature: .578
 - Distance between the two main vertical features: 1.492
 - Distance from the left edge to the center of the first vertical feature: .375
 - Radius of the bottom corner: R .030-.060
 - Distance from the center of the first vertical feature to the center of the second vertical feature: 10.383 \pm .000
 - Distance from the center of the second vertical feature to the right edge: .010
 - Distance from the center of the second vertical feature to the right edge: 4.312
 - Distance from the center of the second vertical feature to the right edge: 4.062
 - Overall height: .500

VIEW A-A
SCALE: 1/1

CUTOUT DETAIL -
SEE VIEW B
SH 2



PART NO.

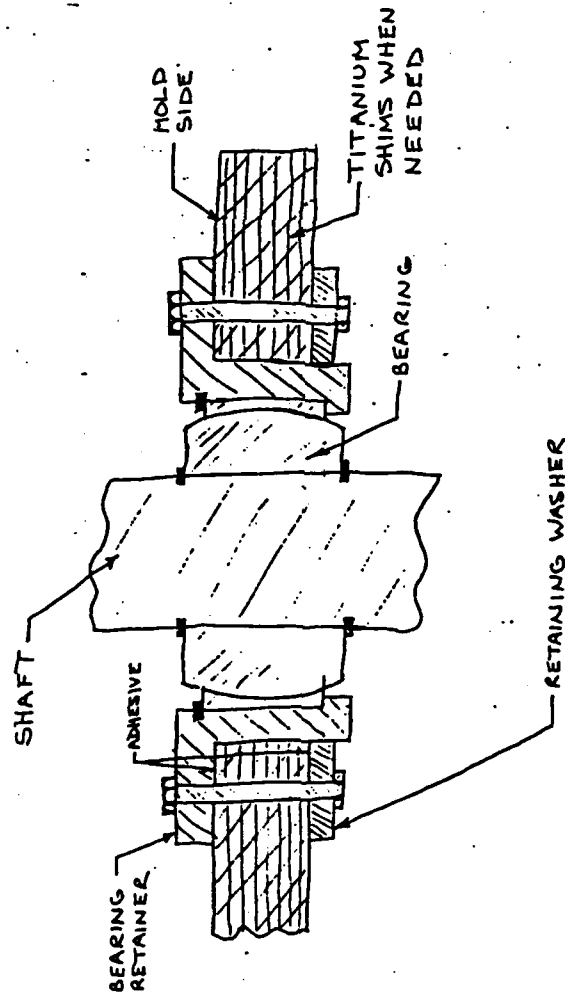
APPROVED BY THE BOARD OF DIRECTORS AND EXECUTIVE OFFICERS
DATE: MAY TWENTY SEVEN 1941

RAIL, MACHINED,
R.H.

1111	FROM NO.	T-12585964/B
0	19200	
1/2	UNIT OF C.A.C. IN 1988	1 OF 2

[illegible]

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



REF. DWG.	DESCRIPTION

PART NO.

U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001

GENERIC BRG JOINT IN COMPOSITE

SIZE	FSCN NO.	UNIT WT.	SHEET
B	19200	T-1258 6032/A	1 OF 1

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SHCAR FORM 66-1 JUN 66 (TEMP) REPLACES ARRADCON FORM 66, AUG 77.

REVISIONS		
SYM	DESCRIPTION	DATE

INVERTED FLARE
FITTINGS

PART NO.

[illegible]

SINCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
SYM	DESCRIPTION	DATE

003	1/4	8	CAS	ASTM A519
003	1/4	9	CAS	ASTM A519
001	1/4	20	CAS	ASTM A519

DASH	TUBING	LENGTH	MATERIAL	COMMENTS

MAX. PRESSURE 150 PSI

PART NO.

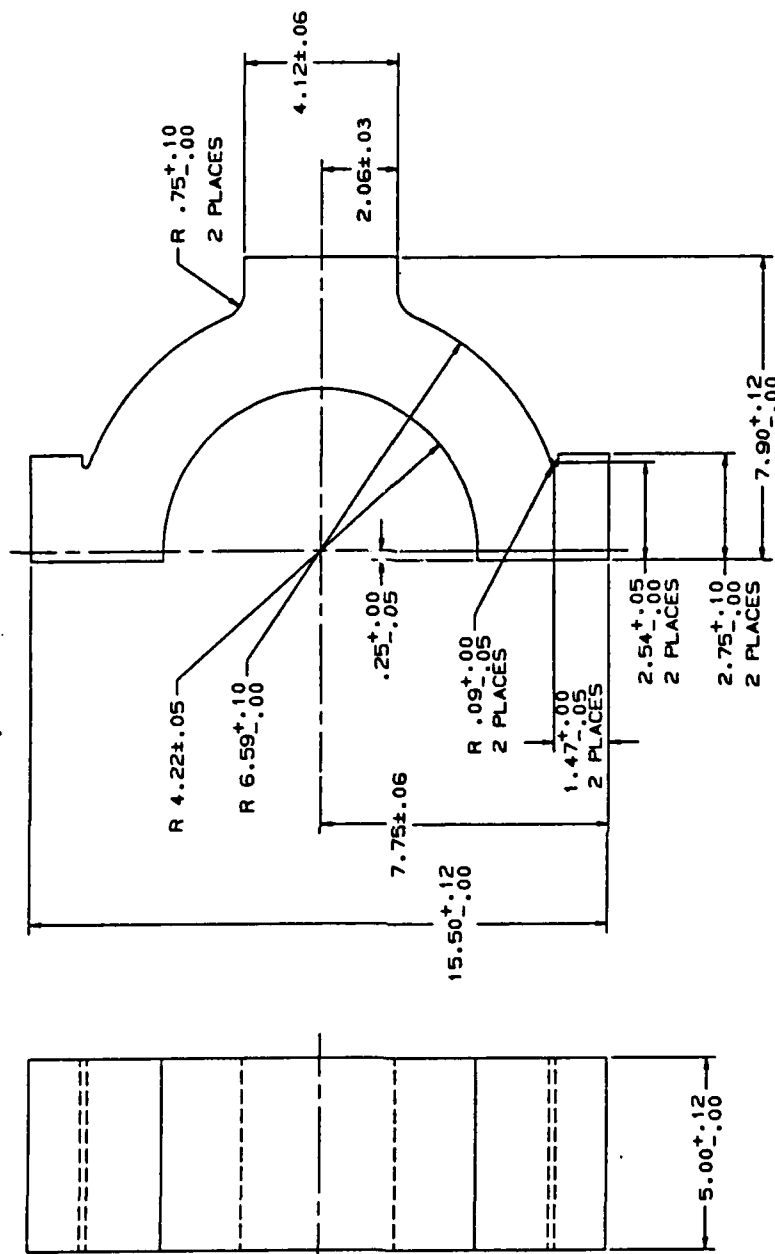
**U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-8001**


TUBING, AIR, BRAKE

SIZE B	FSCM NO. 19200	T12586035/A
SCALE	UNIT WT.	SHEET 1 OF 1

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

REVISIONS		
REV	DESCRIPTION	DATE
1		87-1-12
2		87-2-2



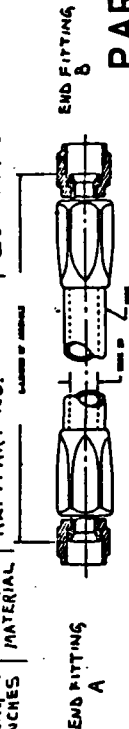
METEORICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		C.S. AND FINISH REQUIRED AND RECOMMEND (FORM 10)	
17	L/F	UNLESS OTHERWISE SPECIFIED		1951-12		C/F	
18	L/F	DIMENSIONS ARE IN INCHES		4. 1968		C/F	
19	L/F	TOLERANCES ON DECIMALS = L/F					
20	L/F	FRACTIONS = L/F UNLESS = L/F					
21	L/F	THIRD ANGLE PROJECTION					
22	L/F						
23	L/F						
24	L/F						
25	L/F						
26	L/F						
27	L/F						
28	L/F						
29	L/F						
30	L/F						
31	L/F						
32	L/F						
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94	L/F						
95	L/F						
96	L/F						
97	L/F						
98	L/F						
99	L/F						
100	L/F						
SHEET AREA USED ON APPLICATION		DATE WHEN MADE		DATE WHEN MADE			

CAD STATUS USER 87/02/03 M20M42 CLAMP

REVISIONS		
SYM	DESCRIPTION	DATE

[illegible]

COMMENTS



PART NO.

[illegible]

SSM-CAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

[illegible]

COMMENTS

MATERIAL

LENGTH
INCHES

WALL THICKNESS

TUBING
Q.D.

**DASH
NO.**

PART NO.

				MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING				U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-6001
				YP		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	DRAFTSMAN <i>M/G/m</i>	CHECKER			
				TS			ENGR	ENGR			
				EL2							
				FA							
				BH			ENGR	ENGR			
NEXT ASSY				RH		THIRD ANGLE PROJECTION				SIZE B	FSCM NO.
										19200	T-1258G038/A
										SCALE	UNIT WT.
											SHEET / OF 1
				APPLICATION							

SMCAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL EXTRUSIONS AND FORGINGS ARE TO BE ACCOMPANIED BY A TEST BAR IN T-6 TEMPER CONDITION WITH MINIMUM MATERIAL PROPERTIES OF 80% OF THOSE SHOWN IN TABLE I.
- SPIN-REAR PARTS ARE TO BE ACCOMPANIED BY A TEST BAR IN T-6 TEMPER CONDITION WITH MIN. MAT'L PROPERTIES OF 92% OF THOSE SHOWN IN TABLE I.

MATRIX
ALLOY

TYPICAL MECHANICAL PROPERTIES FOR HEAT TREAT CONDITION
V/Q SIC Reinforcement

	15	20	25	30	35	40
6061	14 58 66 7.5	15 60 72 5.5	16.5 62 75 4.5	17.5 63 80 3.0	19.5 66 80 2.7	21 65 85 2.00
2124	—	19 58 80 7.0	16.5 60 82 5.6	17.5 64 86 4.5	—	22 75 100 1.1
7090	—	15 95 105 2.5	16.7 98 115 2.0	18.5 102 112 1.2	19 103 105 0.9	21 100 103 0.9
7091	14 84 100 5	15 90 105 4.5	16.5 90 105 3.0	18.5 98 111 2.0	—	20.2 90 95 1.2

TABLE I.

REF. USED	DESCRIPTION
12586018	TUBE, LATTICE
12586036	AL/SIC FORGINGS
12586016	AL/SIC EXTRUSIONS

KEY

Modulus (10 ⁶ psi)	Yield Strength (ksi)	Ultimate Strength (ksi)	Ductility (%)
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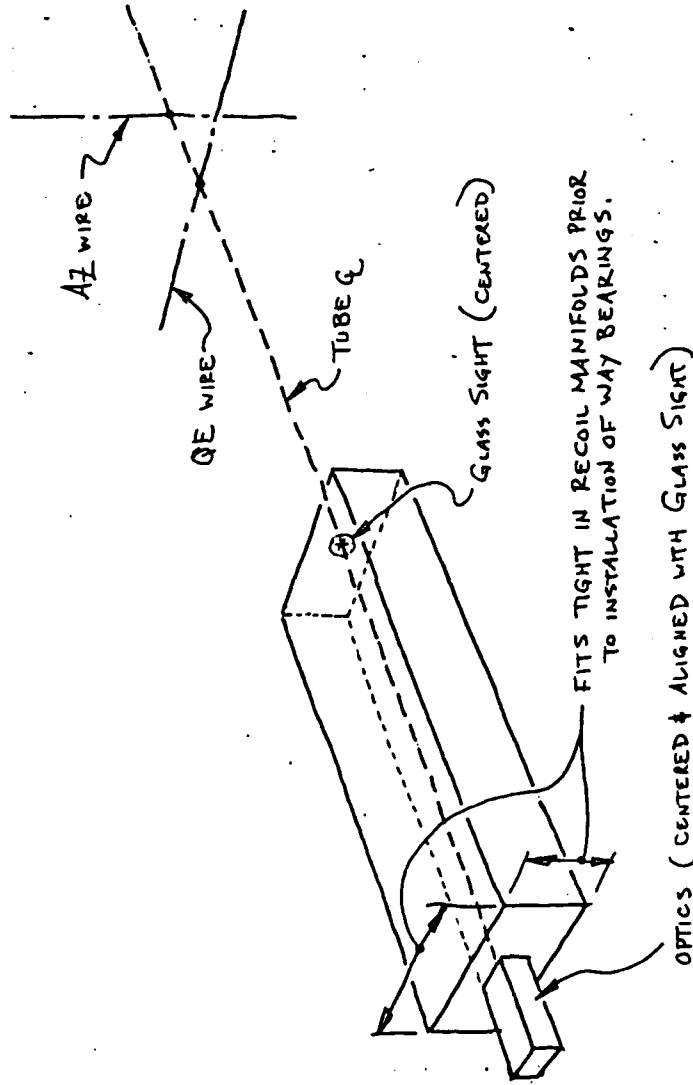
PART NO.

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN S. DALCHO	
TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *		CHECKER ENGR	
THIRD ANGLE PROJECTION		ENGR	
MECHANICAL PROPERTIES		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001	
YP		AL/SIC MATERIAL PROPERTIES	
TS		SIZE B	
EL2		FSCM NO. 19200	
RA		T-12586039 /A	
BH		SCALE — UNIT WT. — SHEET 1 OF 1	
RH			
NEXT ASSY			
USED ON			
APPLICATION			

SACAR FORM 66, 1 JUN 66(TEMP) REPLACES ARRADCOM FORM 66, AUG 77, WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

REVISIONS		
SYM	DESCRIPTION	DATE
		APPROVAL



PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5001		ORIGINAL DATE OF DRAWING	
Way Alignment Fixture		DRAFTSMAN S. ANDERSON	
SIZE B 19200		CHECKER ENGR	
FSCM NO. T-1258 6060-004/A		ENGR	
SCALE —		UNIT WT. —	
SHEET 1 of 1			
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS & FRACTIONS & ANGLES &	
THIRD ANGLE PROJECTION			
MECHANICAL PROPERTIES		YP TS EL2 RA BH RH	
APPLICATION		NEXT ASSY USED ON	

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77,
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE B

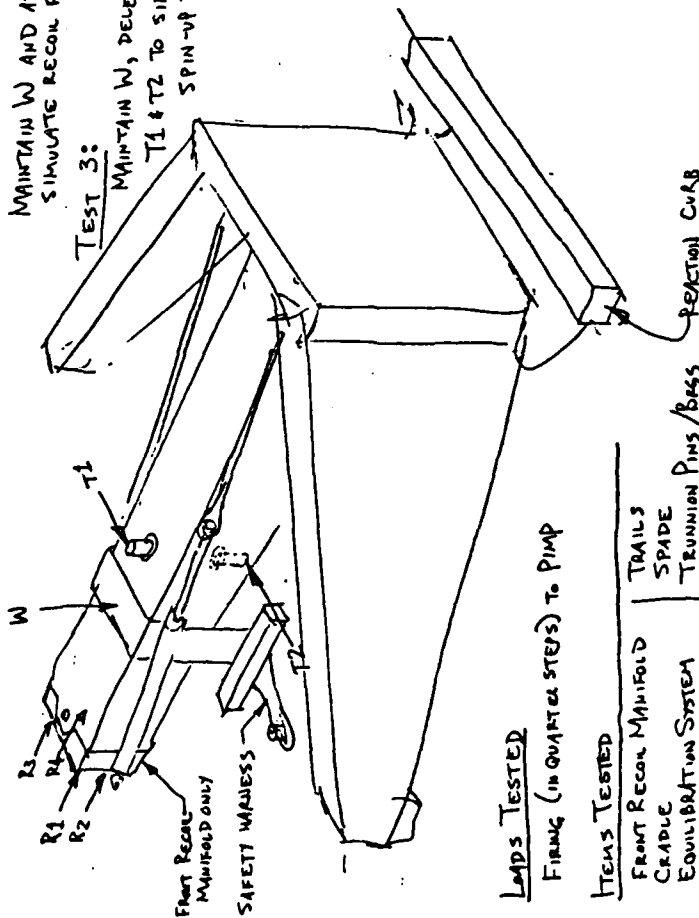
TEST 1: Apply W TO SIMULATE DEAD WEIGHT LOAD.

TEST 2:

MAINTAIN W AND ADD R1-R4 TO SIMULATE RECON FORCES.

TEST 3:

MAINTAIN W, DELETE R1-R4, AND ADD T1 & T2 TO SIMULATE PROTECTIVE SPIN-UP TORQUES.



LOADS TESTED

FIRING (IN QUARTER STEPS) TO PIMP

ITEMS TESTED

FRONT RECON MANIFOLD
CRADLE
EQUILIBRATION SYSTEM
GIMBAL
PLATFORM

TRAILS
SPADE
TRUNNION PINS/BAGS
TRAVERSE PINS/BAGS

PART NO.

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-8001		ORIGINAL DATE OF DRAWING	
STRUCTURAL TEST FIXTURE		DRAFTSMAN G. ANDERSON	
SIZE B 19200		CHECKER ENGR	
FSCM NO. T-1258 6060 - 045/A		ENGR	
SCALE —		UNIT WT. —	
SHEET 1 OF 1			

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS * FRACTIONS * ANGLES *	
THIRD ANGLE PROJECTION			

MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
BH	
RH	
APPLICATION	
NEXT ASSY	USED ON

SMCAR FORM 66, 1 JUN 66 (TEMP) REPLACES ARRADCOM FORM 66, AUG 77.
REVISION MAY BE ISSUED UNTIL PERMANENT

END

10-87

DTIC